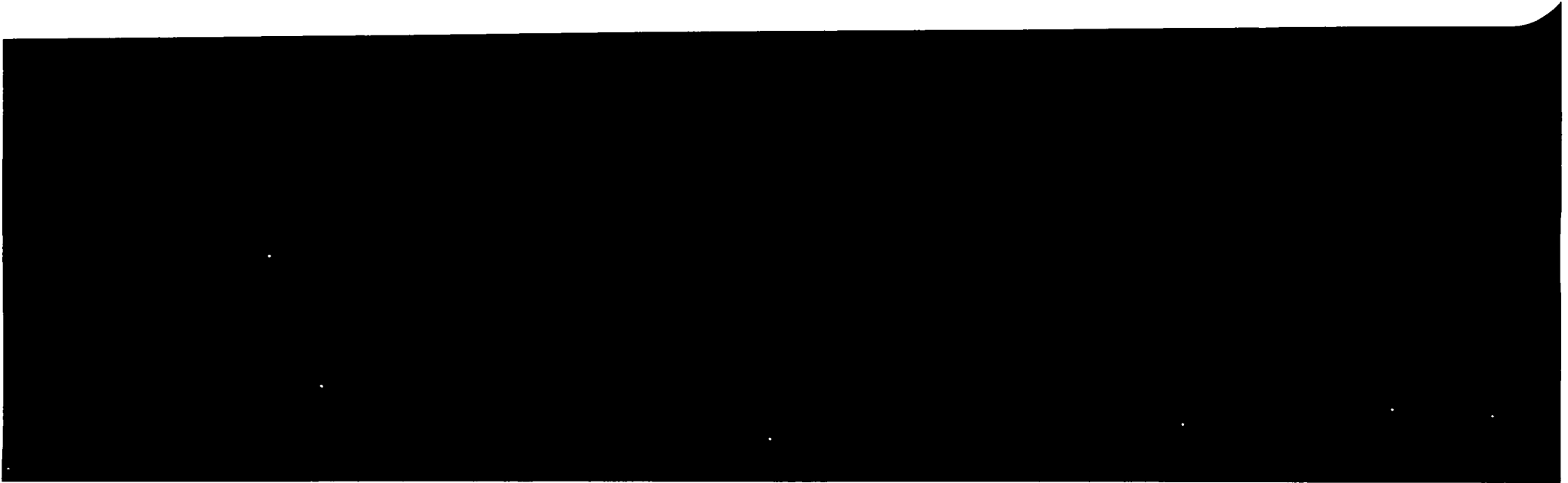


1044b UIC - EAST POPLAR OIL FIELD  
ENFORCEMENT CASE SDWA 1431  
Folder ID: 13548 1995 Privileged

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1



22 Spill Reports

Region 8



13548



## Spill Reports

6-8-95	Line to 80-D
5-30-95	C Btry
6-22-95	# 39
9-5-95	H Btry
1-11-95	# 39
4-8-96	EPU
6-1-96	H Btry
6-17-96	H Btry
7-22-96	H Btry
12-20-97	# 100
12-21-97	# 100
12-29-97	C Btry
1-6-98	F Btry
1-3-98	# 12
1-9-98	F Btry
1-25-99	Line from 8-D to 80-D
1-22-99	Line from 8-D to 80-D
6-15-95	Line to 80-D
9-5-91	# 39
9-5-91	A Btry
9-6-91	# 39
9-14-91	H Btry
9-16-91	H Btry
9-25-91	# 39
10-14-91	Huber Btry
2-12-92	# 39
6-17-92	# 85
11-30-92	# 12
1-18-93	# 85
1-19-93	# 85
1-25-93	# 18
1-23-93	Huber Btry
1-30-93	South Central
2-1-93	H Btry
2-4-93	# 15
2-5-93	# 15
2-6-93	Huber # 1
2-6-94	# 15
3-8-93	# 18
3-11-93	# 85
3-25-93	A Btry (# 85 pig trap)
8-14-93	Huber 4-A
10-8-93	South Central Btry
11-18-93	80-D Salt Water Line

1-21-94	H Btry
1-21-94	# 6
6-12-95	South Central Btry

**REGULATORY COMPLIANCE PROGRAM**  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Vernor Sandau Prod. Foreman  
(Name) (Title)

Owner of Material Spilled: Murphy ExPro CO

Address: Poplar Phone #: 406-768-3412

Date of Spill: 6-8-95 Time of Spill: 5:00 AM

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 7:15 AM

Amount or rate of discharge: Oil: 0 Water: 10 bbls Hrs: 2

Amount entered water: None

Distance & Direction to nearest stream: 2 mi South of Poplar  
River

Distance & Direction to nearest Town: 7 mi North East of  
Poplar

Field Name: E.P.U. Lease Name: South Central Storage

Well Name: Salt water line to 80-D

Exact Location: County: Roosevelt Sec: 10 Type: \_\_\_\_\_ Range: S/E

Area/Size of Damage: \_\_\_\_\_

Size & type of pipe damaged: 6" Transite

Nature or Cause of Incident: Collar Broke on coupling

Effect on Environment: Small

Method of Containment: \_\_\_\_\_

Measures taken to clean up pollutants: picked up water  
with vacuum trailer

Clean up team (Name and Address): \_\_\_\_\_

Richards Rent

Action taken to prevent recurrence: Put fiberglass douphar  
in place of cement asbestos collar

Vernor Sandau 6-12-1995  
SIGNATURE DATE

**REGULATORY COMPLIANCE PROGRAM**  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Vernon Sander Pres. Foteman  
(Name) (Title)

Owner of Material Spilled: MURPHY EXPRO CO

Address: Poplar MT. Phone #: 408-5612

Date of Spill: 5.30.95 Time of Spill: 7:00 AM

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 5.30.1995

Amount or rate of discharge: Oil: 0 Water: 50 BPH Hrs: 1

Amount entered water: NONE

Distance & Direction to nearest stream: Spill is 1 mile  
South of Poplar River

Distance & Direction to nearest Town: Spill is 6 1/2  
miles North & East of Poplar MT

Field Name: E.P.U. Lease Name: C. Battery

Well Name: E.P.U. # 5 & E.P.U. # 18

Exact Location: County: Rosevelt Sec: 2 Type: \_\_\_\_\_ Range: 51E

Area/Size of Damage: 50' X 120'

Size & type of pipe damaged: 4" Transite (Cement Asbestos)

Nature or Cause of Incident: Cement Asbestos Pipe end  
Broke in Coupling

Effect on Environment: Minor

Method of Containment: Picked up water with Vacuum Trailer

Measures taken to clean up pollutants: Picked up water  
with Vacuum Trailer & Tilled Surface of leak area.

Clean up team (Name and Address): Richard RSTOT.

Action taken to prevent recurrence: Put in 2 new joints  
of pipe & 3 new couplings.

Vernon Sander 5.31.95  
SIGNATURE DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Herman Sandan (Name) Prod. Foreman (Title)

Owner of Material Spilled: MURPHY EGYPT CO

Address: Poplar MT. Phone #: 406-768-3612

Date of Spill: 6-22-95 Time of Spill: 3:00 AM

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 7:10 AM 6-22

Amount or rate of discharge: Oil: 10 gal Water: 30 Bbls. Hrs: 4

Amount entered water: NONE

Distance & Direction to nearest stream: 1/2 mi South of  
Poplar River

Distance & Direction to nearest Town: 8 mi North of  
Poplar MT.

Field Name: E. RU Lease Name: E. RU. W 39

Well Name: #39

Exact Location: County: Roosevelt Sec: 3 Type: \_\_\_\_\_ Range: 51E

Area/Size of Damage: 40' x 110'

Size & type of pipe damaged: 3 1/2 inch Steel

Nature or Cause of Incident: Hole in Pipe

Effect on Environment: Small

Method of Containment: Picked up water with vacu trailer

Measures taken to clean up pollutants: Picked up oil &  
water & covered residue with dirt

Clean up team (Name and Address): Richards RS 97

Action taken to prevent recurrence: Replaced section of  
Steel line with fiberglass pipe

Herman Sandan 6-23-95  
SIGNATURE DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Vernon Santan Prod. Foreman  
(Name) (Title)

Owner of Material Spilled: MURPHY EXPRO CO

Address: Poplar MT Phone #: 768-3612

Date of Spill: 9-2 Time of Spill: 7:15 AM

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 8:00 AM 9-2-95

Amount or rate of discharge: Oil: 4 gal Water: 5 bbls Hrs: 2

Amount entered water: NONE

Distance & Direction to nearest stream: 3 1/2 miles North  
of Poplar River

Distance & Direction to nearest Town: 6 miles N. E. of Poplar

Field Name: E.P.U. Lease Name: A - Battery

Well Name: E.P.U. # 55 + 104

Exact Location: County: Roosevelt Sec: 14 ~~T~~ 28N Range: 51E

Area/Size of Damage: 5' x 50'

Size & type of pipe damaged: 5"

Nature or Cause of Incident: hole in metal pipe (internal  
corrosion)

Effect on Environment: Small

Method of Containment: \_\_\_\_\_

Measures taken to clean up pollutants: covered with dirt

Clean up team (Name and Address): Richards RS&T Service

Action taken to prevent recurrence: put leak clamp on  
line.

Vernon Santan 9-5-1995  
SIGNATURE DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: WELW Searles (Name) Prod. Foreman (Title)

Owner of Material Spilled: MURPHY EXPRO CO

Address: Poplar MT Phone #: 268-3613

Date of Spill: 1-11-95 Time of Spill: 6:00 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 2:30 A.M. 1-11-95

Amount or rate of discharge: Oil: 30 gal. Water: 8 bbl Hrs: 1

Amount entered water: None

Distance & Direction to nearest stream: Spill is 1/4 mi  
South of Poplar River

Distance & Direction to nearest Town: Spill is 6 mi  
North of Poplar MT

Field Name: E. P.U. Lease Name: E.P.U. #39

Well Name: E.P.U. #39

Exact Location: County: Roosavelt Sec: 33 Type: \_\_\_\_\_ Range: 51E

Area/Size of Damage: 3' X 100'

Size & type of pipe damaged: 3" Fiber glass

Nature or Cause of Incident: glued collar on pipe  
came loose

Effect on Environment: Minimal

Method of Containment: Spill contained itself in  
low spot

Measures taken to clean up pollutants: what we could + covered with dirt

Clean up team (Name and Address): Richards R&B Service

Action taken to prevent recurrence: glued new collar on

pipe + put in a 4' piece of Reinforced Rubber  
hose to prevent pipe from pulling apart when it contracts  
Gene Rendon 1-13-95

SIGNATURE

DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Levon Suda Prod. Foreman  
(Name) (Title)

Owner of Material Spilled: MURPHY E.P. CO

Address: Poplar MT. Phone #: 1-406-748-3612

Date of Spill: 4-8-96 Time of Spill: 3:00 P.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 3:15 P.M.

Amount or rate of discharge: Oil: 40 gal. Water: \_\_\_\_\_ Hrs: \_\_\_\_\_

Amount entered water: NONE

Distance & Direction to nearest stream: 2 mi North (Poplar River)

Distance & Direction to nearest Town: 6 mi. South West

Field Name: E.P.U. Lease Name: \_\_\_\_\_

Well Name: \_\_\_\_\_

Exact Location: County: Roosvelt Sec: 10 Type: W Range: 51E

Area/Size of Damage: 10 FT X 30 FT.

Size & type of pipe damaged: 3" fiberglass

Nature or Cause of Incident: 3" fiberglass line was laying on old steel line & developed a small hole.

Effect on Environment: NONE

Method of Containment: Spill was small & did not spread far.

Measures taken to clean up pollutants: covered with dirt

Clean up team (Name and Address): Pinland's R&B

Action taken to prevent recurrence: Put in new piece of pipe to replace damaged one & raised line off of old steel line  
4-9-96  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: W. N. Sander Prod Foreman  
(Name) (Title)

Owner of Material Spilled: Murphy E&P Co

Address: Poplar MT Phone #: 406-768-3412

Date of Spill: 6-1-96 Time of Spill: 6:30 P.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 7:30 P.M.

Amount or rate of discharge: Oil: 40 gal. Water: 6 hbls Hrs: 1

Amount entered water: None

Distance & Direction to nearest stream: 2 mi North to  
Poplar River

Distance & Direction to nearest Town: 6 1/2 mi Southwest  
to Poplar MT

Field Name: E. P. U. Lease Name: H. B. B.

Well Name: H. B. B. gathering line (100-20-104-55-101+9)

Exact Location: County: Powder Sec: 11 Type: 28N Range: S1E

Area/Size of Damage: 6' x 14 ft.

Size & type of pipe damaged: 5 1/2" steel

Nature or Cause of Incident: Pinhole in pipe (corrosion)

Effect on Environment: Small

Method of Containment: water was contained in ditch dug to  
repair leak

Measures taken to clean up pollutants: Picked up water &  
oil with vacuum trailer

Clean up team (Name and Address): Richards Rbt. S.R.  
Poplar area

Action taken to prevent recurrence: Put clamp on pipe

W. N. Sander 6-5-96  
SIGNATURE DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Vern Sander Prod. Foreman  
(Name) (Title)

Owner of Material Spilled: MURPHY EXPLOR CO

Address: Poplar Mt. Phone #: 406-768-3612

Date of Spill: 6-17-1996 Time of Spill: 9:00 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 9:30 A.M. 6-17-96

Amount or rate of discharge: Oil: 2 gal. Water: 40 gal. Hrs: 30 min

Amount entered water: NONE

Distance & Direction to nearest stream: \_\_\_\_\_

2 1/2 mi NORTH TO Poplar River

Distance & Direction to nearest Town: \_\_\_\_\_

6 mi Southwest TO Poplar Mt.

Field Name: E. P. U. Lease Name: A - BATT.

Well Name: 104 + 55

Exact Location: County: Roosvelt Sec: 14 Type: 28N Range: 51E

Area/Size of Damage: 2 1/2' X 3'

Size & type of pipe damaged: 5 1/2" Steel

Nature or Cause of Incident: Pinhole in ~~end~~ Pipe

Effect on Environment: Small

Method of Containment: Small amount of water soaked into Soil.

Measures taken to clean up pollutants: Covered with dirt.

Clean up team (Name and Address): Richards B&B Service

Action taken to prevent recurrence: ~~check~~ Put clamp on live

Vern Sander 7-19-1996  
SIGNATURE DATE

**REGULATORY COMPLIANCE PROGRAM**  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Victor Sandoz Prod. Foreman  
(Name) (Title)

Owner of Material Spilled: MURPHY EXPRO CO.

Address: Poplar Mt. Phone #: 406-653-1634

Date of Spill: 7-22-96 Time of Spill: 7:00 AM

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: 7:40 A.M. 7-22

Amount or rate of discharge: Oil: 3 gal Water: 4 Bbls Hrs: 1

Amount entered water: NONE

Distance & Direction to nearest stream: 2 1/2 mi NORTH

To Poplar River

Distance & Direction to nearest Town: 6 1/2 mi Southwest

To Poplar Mt.

Field Name: F. PU Lease Name: H. BATTERY

Well Name: 104 + 55

Exact Location: County: ROOSEVELT Sec: 14 Type: 28 Range: S1 E

Area/Size of Damage: 3' X 60'

Size & type of pipe damaged: 5 1/2" Steel

Nature or Cause of Incident: Pinhole in Pipe

Effect on Environment: Small

Method of Containment: Small amt. of fluid soaked into soil.

Measures taken to clean up pollutants: Covered with dirt.

Clean up team (Name and Address): Richards RSBT Service

Action taken to prevent recurrence: Put leak clamp on

Pipe

Don Sandoz 7-22-96  
SIGNATURE DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Roy Reade Dist manager  
(Name) (Title)

Owner of Material Spilled: Murphy E & P

Address: Box 547 Poplar mont. Phone #: 768-3611

Date of Spill: 12-20-97 Time of Spill: 8:00 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

None

Date & Time of Initial Notification: \_\_\_\_\_

Amount or rate of discharge: Oil: 1/2 bbl Water: 3 bbl Hrs: \_\_\_\_\_

Amount entered water: None

Distance & Direction to nearest stream: 2 1/2 miles

North west

Distance & Direction to nearest Town: 10 miles South west

Poplar

Field Name: East Poplar Lease Name: East Poplar unit

Well Name: EP4#100

Exact Location: County: \_\_\_\_\_ Sec: 11 Type: 28 Range: 51

Area/Size of Damage: 10' x 20'

Size & type of pipe damaged: 3" Steel pipe

Nature or Cause of Incident: Extended corr.

Effect on Environment: some salt water on the ground

Method of Containment: Dug hole to catch water

Measures taken to clean up pollutants: Picked up with  
Vacuum Trailer

Clean up team (Name and Address): Richard Rount

Action taken to prevent recurrence: Put Leak clamp on

pipe

Roy Reade

SIGNATURE

12-20-97  
DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Ray Reede Dist. manager  
(Name) (Title)

Owner of Material Spilled: Murphy E & P

Address: Box 547 Poplar Montana Phone #: 769-3611

Date of Spill: 12-21-97 Time of Spill: 7:40 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: none

Date & Time of Initial Notification: \_\_\_\_\_

Amount or rate of discharge: Oil: 1/2 Bbl Water: 5 Bbl Hrs: \_\_\_\_\_

Amount entered water: none

Distance & Direction to nearest stream: 2 1/2 miles  
north west

Distance & Direction to nearest Town: 10 miles south west

Field Name: East Poplar Lease Name: East Poplar unit

Well Name: EP4 #100

Exact Location: County: Bozeman Sec: 11 Type: 28 Range: 51

Area/Size of Damage: 12' x 20'

Size & type of pipe damaged: 3" Steel

Nature or Cause of Incident: External corrosion

Effect on Environment: some salt water

Method of Containment: Dug hole to catch water

Measures taken to clean up pollutants: Picked up water  
with Vacuum Trailers

Clean up team (Name and Address): Richard R. Roust

Action taken to prevent recurrence: Put in 300' New

Fiberglass pipe

Ray Reede

SIGNATURE

12-24-97  
DATE





REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Ray Reed Oil manager  
(Name) (Title)

Owner of Material Spilled: Murphy E & P

Address: Box 547 Phone #: 768-3611  
Poplar Mont 59213

Date of Spill: 12-29-97 Time of Spill: 7:30 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: none

Date & Time of Initial Notification: 7:30 A.M.

Amount or rate of discharge: Oil: \_\_\_\_\_ Water: 2 Bbls Hrs: \_\_\_\_\_

Amount entered water: none

Distance & Direction to nearest stream: 1 3/4 miles  
North west

Distance & Direction to nearest Town: 11 miles south west  
Poplar

Field Name: East Poplar Lease Name: East Poplar unit

Well Name: C-Batt Salt water Line

Exact Location: County: ROOSEVELT Sec: 2 Type: 28 Range: 51

Area/Size of Damage: 15x20

Size & type of pipe damaged: 4" T. metal

Nature or Cause of Incident: pipe Turned soft

Effect on Environment: some salt water in wheat field

Method of Containment: dug hole for water

Measures taken to clean up pollutants: Picked up water  
with Vacuum Trailer

Clean up team (Name and Address): Richards Roust

Action taken to prevent recurrence: Installed 500' new

Fiberglass pipe from Treater west

Raymond Reed 12-29-97  
SIGNATURE DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Ray Reede Dist manager  
(Name) (Title)

Owner of Material Spilled: Murphy E & P

Address: Box 547 Phone #: 768-3612  
Poplar Mont

Date of Spill: 1-6-98 Time of Spill: 7:15 AM

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: none

Date & Time of Initial Notification: 7:15

Amount or rate of discharge: Oil: \_\_\_\_\_ Water: 3 Hrs: \_\_\_\_\_

Amount entered water: none

Distance & Direction to nearest stream: 1 1/2 miles North west

Distance & Direction to nearest Town: 10 miles south west

Poplar

Field Name: East Poplar Lease Name: EPL

Well Name: F-001 Location

Exact Location: County: Roosevelt Sec: 3 Type: 28 Range: 51

Area/Size of Damage: 15 x 30

Size & type of pipe damaged: 4" Transite

Nature or Cause of Incident: JOINT BROKE

Effect on Environment: Leaked some water in Field

Method of Containment: Dug hole

Measures taken to clean up pollutants: sucked up water  
with Vacuum Trailer

Clean up team (Name and Address): Richards Rust

Action taken to prevent recurrence: Put in new 4"

Fiber glass pipe

Ray Reede 1-6-98  
SIGNATURE DATE

REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Ray Reece District manager  
(Name) (Title)

Owner of Material Spilled: Murphy E & P

Address: Box 547 Phone #: 768-3611  
Peylor mont

Date of Spill: 1-3-98 Time of Spill: 7:15 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: none

Date & Time of Initial Notification: 1-3-98 7:15 A.M.

Amount or rate of discharge: Oil: \_\_\_\_\_ Water: 5 Hrs: \_\_\_\_\_

Amount entered water: none

Distance & Direction to nearest stream: 1 3/4 miles North west

Distance & Direction to nearest Town: 9 1/2 miles south west  
Peylor

Field Name: East Peylor Lease Name: EP 11

Well Name: South Central 6" Line west of #12

Exact Location: County: Roosevelt Sec: 3 Type: 28 Range: 51

Area/Size of Damage: 20 x 30

Size & type of pipe damaged: 6" Transite

Nature or Cause of Incident: it broke

Effect on Environment: salt water ran in Field

Method of Containment: Oug hole

Measures taken to clean up pollutants: picked up with Vac  
Trailer

Clean up team (Name and Address): Richards Roust

Action taken to prevent recurrence: replaced 2 jts +

Couplings

Ray Reece  
SIGNATURE

1-3-98  
DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Roy Reede District manager  
(Name) (Title)

Owner of Material Spilled: Murphy E & P

Address: Box 547 Phone #: 768-3611  
Poplar mont.

Date of Spill: 1-9-98 Time of Spill: 7:15 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: none

Date & Time of Initial Notification: 7:15 A.M. 1-9-98

Amount or rate of discharge: Oil: \_\_\_\_\_ Water: 8 Hrs: \_\_\_\_\_

Amount entered water: none

Distance & Direction to nearest stream: 1 1/2 miles north west

Distance & Direction to nearest Town: 10 miles south west  
Poplar

Field Name: East Poplar Lease Name: E P U

Well Name: F Bath Locations

Exact Location: County: Roosevelt Sec: 3 Type: 2B Range: 51

Area/Size of Damage: 20 x 60

Size & type of pipe damaged: 4" Transite

Nature or Cause of Incident: Joint broke

Effect on Environment: salt water ran on field

Method of Containment: Dug hole

Measures taken to clean up pollutants: Picked up with  
Vac Trailer

Clean up team (Name and Address): Richards Roust

Action taken to prevent recurrence: replaced 4 jts &  
couplings

Roy Reede 1-9-98  
SIGNATURE DATE



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Ray Reede District Manager  
(Name) (Title)

Owner of Material Spilled: Murphy Exploration & Production Company

Address: P.O. Box 547 Poplar, MT 59255-0547 Phone #: 406+768-3612

Date of Spill: 1-25-99 Time of Spill: 7:20 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_  
None

Date & Time of Initial Notification: \_\_\_\_\_

Amount or rate of discharge: Oil: \_\_\_\_\_ Water: 8-10 BblHrs: \_\_\_\_\_

Amount entered water: None

Distance & Direction to nearest stream: 2 miles Northwest

Distance & Direction to nearest Town: 7-1/4 Miles

Field Name: East Poplar Lease Name: East Poplar Unit

Well Name: Salt water line from 8-D to 80-D

Exact Location: County: Roosevelt Sec: 10 Type: 28N Range: 51E

Area/Size of Damage: 20X40

Size & type of pipe damaged: 6" Transite

Nature or Cause of Incident: Bolts on coupling were corroded

Effect on Environment: Salt water spilled on farm land.

Method of Containment: Diked

Measures taken to clean up pollutants: Picked up with vacuum trailer

Clean up team (Name and Address): Richards Roustabout Service

P.O. Box 335 Poplar, MT 59255-0335

Action taken to prevent recurrence: Shut line in.

Raymond Reede  
SIGNATURE DATE 1-25-99



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Ray Reede District Manager  
(Name) (Title)

Owner of Material Spilled: Murphy Exploration & Production Company

Address: P.O. Box 547 Poplar, MT. 59255-0547 Phone #: 406-768-3612

Date of Spill: 1-22-99 Time of Spill: 8:30A.M.

Notified (Circle): ☐ Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
☐ Montana Board of Oil & Gas Conservation (406) 656-0040  
☐ Montana Emergency Response Comm. (406) 444-3948  
☐ National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

BLM BIA Fort Peck Tribe

Date & Time of Initial Notification: 1-25-98

Amount or rate of discharge: Oil: \_\_\_\_\_ Water: 30 Bbls Hrs: \_\_\_\_\_

Amount entered water: None

Distance & Direction to nearest stream: \_\_\_\_\_

1-3/4 miles Northwest

Distance & Direction to nearest Town: 7 Miles

Field Name: East Poplar Lease Name: East Poplar Unit

Well Name: Salt water line from 8-D to 80-D

Exact Location: County: Roosevelt Sec: 10 Type: 28N Range: 51E

Area/Size of Damage: 40X60

Size & type of pipe damaged: 6" transite Pipe

Nature or Cause of Incident: Bolts on couplings corroded

Effect on Environment: Salt water spilled on farm land

Method of Containment: Diked

Measures taken to clean up pollutants: Picked up with vacuum trailer

Clean up team (Name and Address): Rischards Roustabout Service

P.O. Box 335 Poplar, MT 59255-0335

Action taken to prevent recurrence: Replaced with 2 new bolted couplings.

Raymond Reede  
SIGNATURE DATE January 25, 1999



**REGULATORY COMPLIANCE PROGRAM**  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Vernon Swanson Prod Foreman  
(Name) (Title)

Owner of Material Spilled: MURPHY E&P CO

Address: Poplar Mt Phone #: 406-768-3612

Date of Spill: 6-15-95 Time of Spill: 7:00 A.M.

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: \_\_\_\_\_

Amount or rate of discharge: Oil: 0 Water: 1061 Hrs: \_\_\_\_\_

Amount entered water: None

Distance & Direction to nearest stream: 2 mi South of  
Poplar River

Distance & Direction to nearest Town: 1/2 mi Northeast of  
Poplar

Field Name: E.P.U. Lease Name: N.L. Storage

Well Name: Salt Water Line To 80.D

Exact Location: County: Roosvelt Sec: 10 Type: \_\_\_\_\_ Range: 51E

Area/Size of Damage: \_\_\_\_\_

Size & type of pipe damaged: 6" Transite

Nature or Cause of Incident: collar broke on pipe

Effect on Environment: Small

Method of Containment: 0

Measures taken to clean up pollutants: Picked up water  
with Vacuum Trailer

Clean up team (Name and Address): Richards Reat

Action taken to prevent recurrence: Put fiberglass

coupling in place of cement collar

Vernon Swanson 6-20-95  
SIGNATURE DATE



TO: Sidney Campbell  
FROM: Gerald Hagadone  
SUBJECT: Spill

Spill ☒ Discharge ☐ Blowout ☐ Accident ☐ Fire or Explosion ☐

1. Specific Nature or Cause of Incident

3" Fiberglass Collar Pulled Apart

2. Location of Incident

38 Flowline

3. Description of Damage and Volume of Water and Oil Discharged

3 1/2 to 5 BBLs of Oil and Water  
98% Water

4. Date and Time of Occurrence

9/5/91 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

2 Hrs.

6. Action Taken to Prevent Recurrence

New 3" Fiberglass Collar

7. Measures Taken to Clean Up Pollutants

Back Drag

8. Size of Pipe and Type of Damage

3" Fiberglass Pulled Loose

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Gerald Hagadone Date 9/6/91  
Title FOREMAN RR

TO: Sidney Campbell

FROM: Gerald Hagadone

SUBJECT: Spill

Spill ☒ Discharge ☐ Blowout ☐ Accident ☐ Fire or Explosion ☐

1. Specific Nature or Cause of Incident

Flowline Leak at A-BATTERY  
ON 85 FLOWLINE

2. Location of Incident

A-BATTERY ON 85 PIG TRAP

3. Description of Damage and Volume of Water and Oil Discharged

3" VIC GROVE ON PIG TRAP  
1 1/2 TO 2 BBLs OF OIL AND WATER  
99% WATER

4. Date and Time of Occurrence

9/5/91 IN THE NIGHT

5. Length of Time Required to Control Incident or Contain Pollutants

1 - HRS.

6. Action Taken to Prevent Recurrence

NEW 3" HARD TO VIC

7. Measures Taken to Clean Up Pollutants

BACK DRAG

8. Size of Pipe and Type of Damage

3" STEEL GROVE

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Gerald Hagadone Date 9/5/91

Title FOREMAN RR

TO:

FROM:

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

3" DRESSER SLEEVE RUBBERS  
Blowout

2. Location of Incident

39 Flowline

3. Description of Damage and Volume of Water and Oil Discharged

1 to 1 1/2 BBLs of oil and water

4. Date and Time of Occurrence

9/4/91 in the night

5. Length of Time Required to Control Incident or Contain Pollutants

2 HRS.

6. Action Taken to Prevent Recurrence

REPLACED DRESSER SLEEVE

7. Measures Taken to Clean Up Pollutants

BACK DRAG

8. Size of Pipe and Type of Damage

3" DRESSER SLEEVES HO/E SLEEVE  
AND RUBBERS

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Gerald Hagabone Date 9/4/91

Title FOREMAN

TO: Sidney Campbell

FROM: Raymond Reede

SUBJECT:

Spill \_\_\_\_\_ Discharge ☒ Blowout \_\_\_\_\_ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Bolts ate up on old leak clamp

2. Location of Incident

West of 101 on H bath 5 1/2 Total Fluid Line

3. Description of Damage and Volume of Water and Oil Discharged

6 bbls 98 1/2 % water

4. Date and Time of Occurrence

7:00 A.M.

5. Length of Time Required to Control Incident or Contain Pollutants

1/2 hr

6. Action Taken to Prevent Recurrence

100' of line to be replaced today 9-16, 91

7. Measures Taken to Clean Up Pollutants

Fluid picked up with 10 bbl hot trailer

8. Size of Pipe and Type of Damage

5 1/2" out side corrosion

9. Other Federal or State Agencies Notified of Incident

none

Signature Ray Reede

Date 9-14-91

Title \_\_\_\_\_



TO: Sidney Campbell

FROM: Gerald Hagadone

SUBJECT:

Spill \_\_\_\_\_ Discharge ☒ Blowout \_\_\_\_\_ Accident \_\_\_\_\_ Fire or Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flowline leak at H-BATTERY  
on gathering line well # 101-104  
55

2. Location of Incident

H-BATTERY 5 1/2 gathering line

3. Description of Damage and Volume of Water and Oil Discharged

Hole in 5 1/2 gathering line  
5 1/2 to 7 BBls of oil and water 99%

4. Date and Time of Occurrence

9/16/91 in the night

5. Length of Time Required to Control Incident or Contain Pollutants

3 - HRS

6. Action Taken to Prevent Recurrence

5 1/2 LEAK CLAMP

7. Measures Taken to Clean Up Pollutants

BACK DRAG

8. Size of Pipe and Type of Damage

5 1/2 casing gathering line

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Gerald Hagadone Date 9/16/91

Title FOREMAN RR

sent  
9/26

TO:

FROM:

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ✓ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flowline 2" GROVE Pulled A PART  
ON 39 FLOWLINE

2. Location of Incident

39 FLOWLINE

3. Description of Damage and Volume of Water and Oil Discharged

1 1/2 to 2 BBLS. of oil AND WATER 99%  
water

4. Date and Time of Occurrence

9/25/91 IN THE NIGHT

5. Length of Time Required to Control Incident or Contain Pollutants

1 1/2 HRS.

6. Action Taken to Prevent Recurrence

NEW 2" FIBERGLASS GROVE

7. Measures Taken to Clean Up Pollutants

BACK DRAG

8. Size of Pipe and Type of Damage

2" FIBERGLASS GROVE Pulled A PART

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Samuel Magadone RR Date 9/25/91

Title FOREMAN

sent 11-15-91

TO: Sidney Campbell

FROM: Ray Reede

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout V Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

2" X 2" THREAD TO GROVE

2. Location of Incident

E.P.U. IN HUBER TREATER

3. Description of Damage and Volume of Water and Oil Discharged

HOLE IN THREAD TO GROVE 2 1/2 TO 3 BBLS  
OF OIL AND WATER 99% WATER

4. Date and Time of Occurrence

10/14/91 IN Night

5. Length of Time Required to Control Incident or Contain Pollutants

1 1/2 hrs.

6. Action Taken to Prevent Recurrence

REPLACED THREAD TO GROVE

7. Measures Taken to Clean Up Pollutants

SPREAD GRAVEL AND BACK DRAG

8. Size of Pipe and Type of Damage

2" ON TREATER FLOOR

9. Other Federal or State Agencies Notified of Incident

NONE

Signature

Small Hagabone

Date

10/14/91

Title

FOREMAN RR



TO: SIDNEY CAMPBELL  
FROM: GERALD HAGADONE  
SUBJECT:

2/13/92

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flowline Leak on 39 Flowline

2. Location of Incident

200 YARDS NORTH of F-BATTERY  
ON 39 FLOWLINE

3. Description of Damage and Volume of Water and Oil Discharged

2" DRESSER SERVICE  
6 to 8 BBLs of oil and water

4. Date and Time of Occurrence

2/12/92 AROUND NOON

5. Length of Time Required to Control Incident or Contain Pollutants

3 HRS.

6. Action Taken to Prevent Recurrence

NEW DRESSER SERVICE

7. Measures Taken to Clean Up Pollutants

BURNED OFF AND VAC UP

8. Size of Pipe and Type of Damage

2" FIBERGLASS

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Gerald Hagadone Date 2/12/92

Title FOREMAN

TO: SIDNEY CAMPBELL

FROM: JAMES CORNE

SUBJECT:

Spill \_\_\_\_\_ Discharge ☒ Blowout \_\_\_\_\_ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Corrosion

2. Location of Incident

# 85 Flow Line

3. Description of Damage and Volume of Water and Oil Discharged

Lost 1 BBI O/W

4. Date and Time of Occurrence

6-17-92 7 AM

5. Length of Time Required to Control Incident or Contain Pollutants

1 hr.

6. Action Taken to Prevent Recurrence

Replace Section of Flow Line

7. Measures Taken to Clean Up Pollutants

Back fill with fresh dirt

8. Size of Pipe and Type of Damage

3" Steel Line Pipe

9. Other Federal or State Agencies Notified of Incident

Signature James L. Corne Date 6-17-92

Title Foreman

TO: SIDNEY CAMPBELL

FROM: GERALD HAGADONE

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flowline Leak on 12 & 39 Line  
12 & 39 to South Central

2. Location of Incident

#12 Flowline 700' North from C.P.D.  
#11 on 12 & 39 Flowline in Road  
Ditch

3. Description of Damage and Volume of Water and Oil Discharged

Hole in 2 1/2" Steel Flowline  
8 to 9 Bbls still in Road Ditch  
100% water.

4. Date and Time of Occurrence

11/30/92 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

4 hrs.

6. Action Taken to Prevent Recurrence

New Leak Clamp

7. Measures Taken to Clean Up Pollutants

Wait on Ground to Dry

8. Size of Pipe and Type of Damage

2 1/2" Steel 5' wide 125' long

9. Other Federal or State Agencies Notified of Incident

None

Signature Gerald Hagadone Date 11/30/92

Title FORMAN

TO: Sidney Campbell  
FROM: Gerald Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flow Line Break on #85 Flow Line

2. Location of Incident

Flow Line 1200' East on #85 Flow Line

3. Description of Damage and Volume of Water and Oil Discharged

Hole in 3" Dresser Sleeve  
3 to 4 Bbls. of Oil & Water

4. Date and Time of Occurrence

1/18/93 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

2 1/2 hrs.

6. Action Taken to Prevent Recurrence

NEW 3" Dresser Sleeve

7. Measures Taken to Clean Up Pollutants

Wait on Ground to Dry

8. Size of Pipe and Type of Damage

3" Steel Dresser Sleeve 4' Wide  
20' Long

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Gerald Hagadone Date 1/18/93

Title FOREMAN

TO: Sidney Campbell  
FROM: Gerald Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flow line leak on #85

2. Location of Incident

Flow line 1250' East on 85 Flow line

3. Description of Damage and Volume of Water and Oil Discharged

Hole in 3" Fiberglass pipe

4 to 5 Bbls. of oil and water

4. Date and Time of Occurrence

1/19/93 in the night

5. Length of Time Required to Control Incident or Contain Pollutants

2 hrs.

6. Action Taken to Prevent Recurrence

6' of Fiberglass

7. Measures Taken to Clean Up Pollutants

Wait on ground to thaw & dry

8. Size of Pipe and Type of Damage

3" wide 15' long

9. Other Federal or State Agencies Notified of Incident

None

Signature Gerald Hagadone Date 1/19/93

Title FORMAN

TO: Sidney Campbell  
FROM: Gerald Hagadone

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flow line leak on # 18 Flow line

2. Location of Incident

20' South on # 18 Flow line

3. Description of Damage and Volume of Water and Oil Discharged

Hole in Fiberglass Pipe 1/2 BBL  
of oil and water

4. Date and Time of Occurrence

1/25/93 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

2 1/2 hrs.

6. Action Taken to Prevent Recurrence

10' of New Fiberglass

7. Measures Taken to Clean Up Pollutants

Back Drag

8. Size of Pipe and Type of Damage

3' Fiberglass 2' wide 3' long

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Gerald Hagadone Date 1/25/93

Title Foreman

TO: Sidney Campbell  
FROM: Gerald Hagadone

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flow line leak on Huber #1 Well

2. Location of Incident

Flow line 30' east on Huber Battery  
on Huber #1 Flow line

3. Description of Damage and Volume of Water and Oil Discharged

Hole in 2 1/2" steel line  
4 to 8 BBLs of oil and water

4. Date and Time of Occurrence

1/23/93 in the night

5. Length of Time Required to Control Incident or Contain Pollutants

2 hrs.

6. Action Taken to Prevent Recurrence

New 2 1/2" leak clamp

7. Measures Taken to Clean Up Pollutants

Wait on ground to dry

8. Size of Pipe and Type of Damage

2 1/2" 4' wide 15' long

9. Other Federal or State Agencies Notified of Incident

None

Signature Gerald Hagadone Date 1/23/93

Title FOR MAN



TO: Sidney Campbell  
FROM: Jerry Hagadone

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

2" fiberglass hole

2. Location of Incident

South Central Oil Dump Line

3. Description of Damage and Volume of Water and Oil Discharged

3 to 4 Bbls. of oil

4. Date and Time of Occurrence

1/30/93 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

2 hrs.

6. Action Taken to Prevent Recurrence

4' of fiberglass pipe and 2  
collars

7. Measures Taken to Clean Up Pollutants

Back Drag and wait on Ground to  
Dry

8. Size of Pipe and Type of Damage

2" fiberglass 2' wide 5' long

9. Other Federal or State Agencies Notified of Incident

NONE

Signature Jerry Hagadone Date 1/30/93  
Title FOREMAN

TO: Sidney Campbell  
FROM: Jerry Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

5 1/2" STEEL LINE HOLE

2. Location of Incident

300' NORTH FROM H-BATTERY ON  
5 1/2" LINE

3. Description of Damage and Volume of Water and Oil Discharged

3 TO 5 BBLS. OF WATER AND OIL

4. Date and Time of Occurrence

2/1/93

5. Length of Time Required to Control Incident or Contain Pollutants

1 1/2 HRS.

6. Action Taken to Prevent Recurrence

5 1/2" LEAK CLAMP

7. Measures Taken to Clean Up Pollutants

WAIT ON GROUND TO DRY AND BACK  
DRAG

8. Size of Pipe and Type of Damage

5 1/2" STEEL LINE 2' WIDE 4' LONG

9. Other Federal or State Agencies Notified of Incident

NONE

Signature JERRY HAGADONE Date 2/1/93

Title FORWARD

TO: Sidney Campbell  
FROM: Gerald Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident  
2" fiberglass hole
  2. Location of Incident  
800' South on #15 flow line
  3. Description of Damage and Volume of Water and Oil Discharged  
5 to 10 Gals. of water and oil
  4. Date and Time of Occurrence  
2/4/93 in the night
  5. Length of Time Required to Control Incident or Contain Pollutants  
1 hrs.
  6. Action Taken to Prevent Recurrence  
2" back clamp
  7. Measures Taken to Clean Up Pollutants  
Back DRNG
  8. Size of Pipe and Type of Damage  
2" fiberglass 2 ft. by 4 ft.
  9. Other Federal or State Agencies Notified of Incident  
None
- Signature TERRY Hagadone Date 2/4/93  
Title FORMAN

TO: Sidney Campbell  
FROM: Gerald Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

2" fiberglass Hole

2. Location of Incident

800' South on #15 flow line

3. Description of Damage and Volume of Water and Oil Discharged

1 to 1 1/2 Bbls. of water and oil

4. Date and Time of Occurrence

2/5/93 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

3 hrs.

6. Action Taken to Prevent Recurrence

6' of fiberglass pipe and 2 collar

7. Measures Taken to Clean Up Pollutants

Back Drag and Wait on Ground to Dry

8. Size of Pipe and Type of Damage

2" fiberglass 1' wide 10' long

9. Other Federal or State Agencies Notified of Incident

NONE

Signature TERRY HAGADONE Date 2/5/93

Title FORMAN

TO: Sidney Campbell  
FROM: Gerald Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

2" fiberglass

2. Location of Incident

400' South on 15 flow line

3. Description of Damage and Volume of Water and Oil Discharged

1/2 to 1 Bbls. of water and oil

4. Date and Time of Occurrence

2/6/93 in the night

5. Length of Time Required to Control Incident or Contain Pollutants

2 hrs.

6. Action Taken to Prevent Recurrence

4' of fiberglass pipe and 2 collars

7. Measures Taken to Clean Up Pollutants

Back drag and wait on ground to dry

8. Size of Pipe and Type of Damage

2" fiberglass 1' wide 4' long

9. Other Federal or State Agencies Notified of Incident

None

Signature TERRY HAGADONE Date 2/6/93

Title FORNITMAN

TO: Sidney Campbell  
FROM: Gerald Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Hole in 2 1/2 steel line

2. Location of Incident

Huber #1 flow line South East from  
Huber Battery 150'

3. Description of Damage and Volume of Water and Oil Discharged

Hole in 2 1/2 steel line 3 to 5 BBLs  
of water and oil

4. Date and Time of Occurrence

2/6/93 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

2 hrs.

6. Action Taken to Prevent Recurrence

New 2 1/2 leak clamp

7. Measures Taken to Clean Up Pollutants

Wait on ground to dry

8. Size of Pipe and Type of Damage

2 1/2 steel line 2' wide 25' long

9. Other Federal or State Agencies Notified of Incident

NONE

Signature GERRY HAGADONE Date 2/6/93

Title FORWARDER



TO: Sidney Campbell  
FROM: Harold Hagadone

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flow line break on 2" fiberglass collar

2. Location of Incident

18 Flow line

3. Description of Damage and Volume of Water and Oil Discharged

4 to 5 BBLs of water and oil

4. Date and Time of Occurrence

3/8/93 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

3 hrs.

6. Action Taken to Prevent Recurrence

new fiberglass collar

7. Measures Taken to Clean Up Pollutants

wait on ground to dry

8. Size of Pipe and Type of Damage

2" fiberglass collar 4' wide 12' long

9. Other Federal or State Agencies Notified of Incident

none

Signature Jerry Hagadone Date 3/8/93

Title FOREMAN

✓

TO: Sidney Campbell  
FROM: Herald Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flow LINE LEAK ON 85

2. Location of Incident

85 FLOW LINE

3. Description of Damage and Volume of Water and Oil Discharged

2 TO 3 BBLs. of WATER and OIL

4. Date and Time of Occurrence

3/11/93 in the Night

5. Length of Time Required to Control Incident or Contain Pollutants

3 1/2 hrs.

6. Action Taken to Prevent Recurrence

NEW fiberglass 4' AND 2 COLLAR

7. Measures Taken to Clean Up Pollutants

WAIT ON GROUND TO DRY

8. Size of Pipe and Type of Damage

3" FIBERGLASS 3' WIDE 10' LONG

9. Other Federal or State Agencies Notified of Incident

NONE

Signature JERRY Hagadone Date 3/11/93  
Title FOREMAN



TO: Sidney Campbell  
FROM: Herald Hagadone  
SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flow line leak on 2" steel line

2. Location of Incident

Flow line on #85 Pig trap at  
A-BATTERY

3. Description of Damage and Volume of Water and Oil Discharged

Hole in 2" steel line 5 to 6 BBLs.  
of oil and water

4. Date and Time of Occurrence

3/25/93 in the night

5. Length of Time Required to Control Incident or Contain Pollutants

2 1/2 hrs.

6. Action Taken to Prevent Recurrence

5' of 2" steel pipe

7. Measures Taken to Clean Up Pollutants

Pump water and oil from dike

8. Size of Pipe and Type of Damage

2" steel pipe oil and water  
in A-BATTERY DIKE

9. Other Federal or State Agencies Notified of Incident

None

Signature JERRY HAGADONE Date 3/25/93

Title FORAMAN

TO: SIDNEY CAMPBELL

FROM: GERALD HAGADONE

SUBJECT:

Spill \_\_\_\_\_ Discharge \_\_\_\_\_ Blowout ☒ Accident \_\_\_\_\_ Fire or  
Explosion \_\_\_\_\_

1. Specific Nature or Cause of Incident

Flow line leak on 2 1/2" steel line

2. Location of Incident

Flow line on Huber 4-A 350'  
from Huber Treater to Huber Well

3. Description of Damage and Volume of Water and Oil Discharged

Hole in 2 1/2" steel line  
8 to 9 Bbls. of oil and water

4. Date and Time of Occurrence

8/14/93

5. Length of Time Required to Control Incident or Contain Pollutants

1 1/2 hrs.

6. Action Taken to Prevent Recurrence

2 1/2" leak clamp

7. Measures Taken to Clean Up Pollutants

Waiting on ground to dry and crop  
to be cut

8. Size of Pipe and Type of Damage

2 1/2" tubing flow line 12 to 15' wide  
and 150' long

9. Other Federal or State Agencies Notified of Incident

NONE

Signature GERALD HAGADONE Date 8/14/93

Title FOREMAN

REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: JERRY HAGADONE FOREMAN  
(Name) (Title)

Owner of Material Spilled: MURPHY

Address: POPLAR MONTANA Phone #: 768-3612

Date of Spill: 10/8/93 Time of Spill: NIGHT

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: NONE

Date & Time of Initial Notification: \_\_\_\_\_

Amount or rate of discharge: Oil: \_\_\_\_\_ Water: 1/2 BBL Hrs: \_\_\_\_\_

Amount entered water: \_\_\_\_\_

Distance & Direction to nearest stream: \_\_\_\_\_

Distance & Direction to nearest Town: 14 Miles South

Field Name: EAST POPLAR UNIT Lease Name: SOUTH CENTRAL

Well Name: SALT WATER LINE

Exact Location: County: ROOSEVELT Sec: 10 Type: \_\_\_\_\_ Range: 51-E

Area/Size of Damage: 2' X 2'

Size & type of pipe damaged: 6" CEMENT COLLAR

Nature or Cause of Incident: 6" COLLAR BROKE

Effect on Environment: NONE

Method of Containment: DIG UP & REPAIR

Measures taken to clean up pollutants: BACK DRAG

Clean up team (Name and Address): RICHARD ROUSTABOUT

Action taken to prevent recurrence: 2 - NEW COLLARS  
more installed

SIGNATURE JERRY HAGADONE DATE 10/8/93

REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Jim Corve Poleman  
(Name) (Title)

Owner of Material Spilled: Murphy Expl + Prod Co

Address: Box 547 Phone #: 768-3612  
Prophet Mt.

Date of Spill: 11-18-93 Time of Spill: 8 AM

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: None

Date & Time of Initial Notification: \_\_\_\_\_

Amount or rate of discharge: Oil: \_\_\_\_\_ Water: 1066 hrs: \_\_\_\_\_

Amount entered water: None

Distance & Direction to nearest stream: 3/4 mile N.W.

Distance & Direction to nearest Town: 8 Miles SW

Field Name: EPL Lease Name: \_\_\_\_\_

Well Name: 80 D 3/4 W Line

Exact Location: County: Richmond Sec: \_\_\_\_\_ Type: \_\_\_\_\_ Range: \_\_\_\_\_

Area/Size of Damage: 10' wide 90' long

Size & type of pipe damaged: 6" Transite

Nature or Cause of Incident: Erosion

Effect on Environment: \_\_\_\_\_

Method of Containment: Shut water off + Isolate

Measures taken to clean up pollutants: \_\_\_\_\_

Clean up team (Name and Address): Richards Petroleum

Action taken to prevent recurrence: Fix up + Repair

Pipe with new joint

SIGNATURE James L. L... DATE 11-18-93



REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: TERRY ROSS PUMPER  
(Name) (Title)

Owner of Material Spilled: Murphy

Address: \_\_\_\_\_ Phone #: 768-3612

Date of Spill: 1/21/94 Time of Spill: Night

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: NONE

Date & Time of Initial Notification: 8 A.M.

Amount or rate of discharge: Oil: 2 Water: 9 Hrs: 9

Amount entered water: NONE

Distance & Direction to nearest stream: 4 MILES North

Distance & Direction to nearest Town: South WEST  
10 MILES

Field Name: E.P.U. Lease Name: H-BATT

Well Name: H-BATT GATHERING LINE

Exact Location: County: ROOSEVELT Sec: \_\_\_\_\_ Type: \_\_\_\_\_ Range: \_\_\_\_\_

Area/Size of Damage: 3' By 12' in Ditch

Size & type of pipe damaged: 5" STEEL

Nature or Cause of Incident: HOLE IN STEEL PIPE

Effect on Environment: NONE

Method of Containment: \_\_\_\_\_

Measures taken to clean up pollutants: Wait to Dry

Clean up team (Name and Address): RICHARD ROUSTABOUT

Action taken to prevent recurrence: NEW LEAK CLAMP

Richard Roustabout  
SIGNATURE DATE 1/21/94

REGULATORY COMPLIANCE PROGRAM  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: TERRY ROSS PUMPER  
(Name) (Title)

Owner of Material Spilled: MURPHY

Address: \_\_\_\_\_ Phone #: 768-3612

Date of Spill: 1/21/94 Time of Spill: NIGHT

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: NONE

Date & Time of Initial Notification: 7 A.M.

Amount or rate of discharge: Oil: 1/2 Water: 1 Hrs: 2

Amount entered water: NONE

Distance & Direction to nearest stream: 3 MILES North

Distance & Direction to nearest Town: South West  
11 MILES

Field Name: E.P.U. Lease Name: #6

Well Name: #6

Exact Location: County: ROOSEVELT Sec: \_\_\_\_\_ Type: \_\_\_\_\_ Range: \_\_\_\_\_

Area/Size of Damage: 2' By 2' IN Ditch

Size & type of pipe damaged: 2" STEEL

Nature or Cause of Incident: HOLE IN STEEL PIPE

Effect on Environment: NONE

Method of Containment: \_\_\_\_\_

Measures taken to clean up pollutants: WAIT TO DRY

Clean up team (Name and Address): Richard Roustabout

Action taken to prevent recurrence: NEW LEAK CLAMP

SIGNATURE Richard Roustabout DATE 1/21/94

**REGULATORY COMPLIANCE PROGRAM**  
MONTANA  
OIL OR HAZARDOUS SUBSTANCES  
SPILL REPORT

Person Reporting Spill: Heron Sanden Prod. Foreman  
(Name) (Title)

Owner of Material Spilled: MURPHY EXPRO CO

Address: POPLAR MONT Phone #: 406-768-3412

Date of Spill: 5-6-95 Time of Spill: \_\_\_\_\_

Notified (Circle): Montana Disaster & Emerg. Svcs., Helena (406) 444-6911  
Montana Board of Oil & Gas Conservation (406) 656-0040  
Montana Emergency Response Comm. (406) 444-3948  
National Response Center 1-800-424-8802

Other Federal & State Agencies Notified of Incident: \_\_\_\_\_

Date & Time of Initial Notification: \_\_\_\_\_

Amount or rate of discharge: Oil: 0 Water: 10 b1 Hrs: \_\_\_\_\_

Amount entered water: NONE

Distance & Direction to nearest stream: 1 1/2 mi South of  
Poplar River

Distance & Direction to nearest Town: 7 mi Northeast of  
Poplar

Field Name: F.P.U. Lease Name: Sarah Central Storage

Well Name: \_\_\_\_\_

Exact Location: County: Roosevelt Sec: 10 Type: \_\_\_\_\_ Range: 51E

Area/Size of Damage: \_\_\_\_\_

Size & type of pipe damaged: 6" Transite

Nature or Cause of Incident: Bolts Rusted on  
coupling

Effect on Environment: Small

Method of Containment: \_\_\_\_\_

Measures taken to clean up pollutants: Picked up water

Clean up team (Name and Address): Richards RSBT

Action taken to prevent recurrence: Put new coupling  
on pipe

Heron Sanden 6-12-1995  
SIGNATURE DATE





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

RECEIVED

28-110

ENVIRONMENTAL PROTECTION AGENCY

Ref: 8HWM-ER

AUG 23 1995

Sidney W. Campbell  
Murphy Exploration & Production Company  
P.O. Box 61760  
New Orleans, LA 70161-1780

SPCC#: M95016

Dear Mr. Campbell:

On June 13, 1995, a representative of the United States Environmental Protection Agency (U.S. EPA) visited the "G" Battery facility. At the time of the inspection the facility was not in operation. This letter will confirm that you have claimed exemption from the Code of Federal Regulations, Title 40, Part 112 due to the facility no longer having a storage capacity of more than 660 gallons in a single tank, or 1320 gallons total.

We would like to take this opportunity to remind you that, if a reportable spill should occur, the Clean Water Act, Section 311(b)(5), requires that it be reported to the Federal Government. This may be done by contacting the National Response Center at (800) 424-8802.

If you have any questions, please contact Martha Wolf at (303) 294-7164 or Kate Fry at (303) 293-0993.

Sincerely,

*Kate Fry*

Martha Wolf  
SPCC\OPA Coordinator

cc: Deb Madison - Ft. Peck Assinibonne & Sioux Tribes



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

85000000  
AUG 28 1995

Ref: 8HWM-ER

AUG 23 1995

Sidney W. Campbell  
Murphy Exploration & Production Company  
P.O. Box 61760  
New Orleans, LA 70161-1780

ONSHORE PRODUCTION DEPT.

SPCC#: M95017

Dear Mr. Campbell:

On June 13, 1995, a representative of the United States Environmental Protection Agency (U.S. EPA) visited the S. Central & "R" Battery facility. In response to deficiencies noted during this inspection, we received your August 4, 1995 letter which adequately addresses the deficiencies noted for the facility. Additionally, the inspection of the facility indicated that the Spill Prevention Control and Countermeasure (SPCC) Plan conforms to the requirements of the Code of Federal Regulations, Title 40, Part 112. We appreciate your concern for a healthy environment.

We would like to take this opportunity to remind you that SPCC Plans must be reviewed every 3 years. Should any physical changes be made in your oil storage facilities, your SPCC Plan must be updated and signed by a professional engineer.

Also, if a spill should occur, it must be reported to the Federal Government immediately. This may be done by contacting the National Response Center at (800) 424-8802.

If you have any questions, please contact Martha Wolf at (303) 294-7164 or Kate Fry at (303) 293-0993.

Sincerely,

*Kate Fry*

Martha Wolf  
SPCC\OPA Coordinator



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

RECEIVED  
AUG 28 1995

ONSHORE PRODUCTION DEPT.

Ref: 8HWM-ER

AUG 23 1995

Sidney W. Campbell  
Murphy Exploration & Production Company  
P.O. Box 61760  
New Orleans, LA 70161-1780

SPCC#: M95019

Dear Mr. Campbell:

On June 13, 1995, a representative of the United States Environmental Protection Agency (U.S. EPA) visited the "C" Battery facility. In response to deficiencies noted during this inspection, we received your August 4, 1995 letter which adequately addresses the deficiencies noted for the facility. Additionally, the inspection of the facility indicated that the Spill Prevention Control and Countermeasure (SPCC) Plan conforms to the requirements of the Code of Federal Regulations, Title 40, Part 112. We appreciate your concern for a healthy environment.

We would like to take this opportunity to remind you that SPCC Plans must be reviewed every 3 years. Should any physical changes be made in your oil storage facilities, your SPCC Plan must be updated and signed by a professional engineer.

Also, if a spill should occur, it must be reported to the Federal Government immediately. This may be done by contacting the National Response Center at (800) 424-8802.

If you have any questions, please contact Martha Wolf at (303) 294-7164 or Kate Fry at (303) 293-0993.

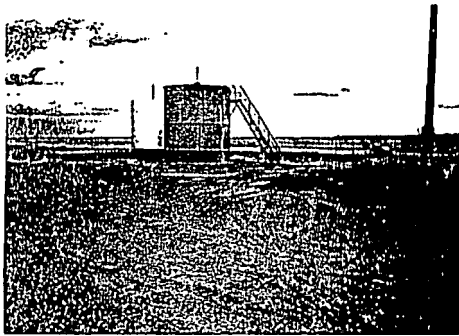
Sincerely,

*Martha Wolf*

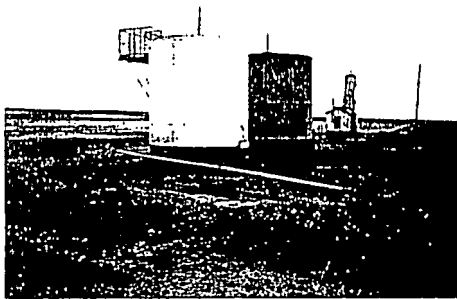
Martha Wolf  
SPCC\OPA Coordinator

cc: Deb Madison - Ft. Peck Assinibonne & Sioux Tribes

SPLC CASE #M95019 - E.P.U. "C" BATTERY



ITEM #7 - SECONDARY CONTAINMENT APPEARED ADEQUATE,  
BUT WOULD REQUIRE ATTENTION IN THE  
NEAR FUTURE  
REMEDY - BUILT UP FIRE WALL



ITEM #18 - INADEQUATE SUPPORT OF OFFLOAD LINE  
REMEDY - BUILT NEW SUPPORTS UNDER LOAD LINE

MURPHY EX-20  
JULY '95

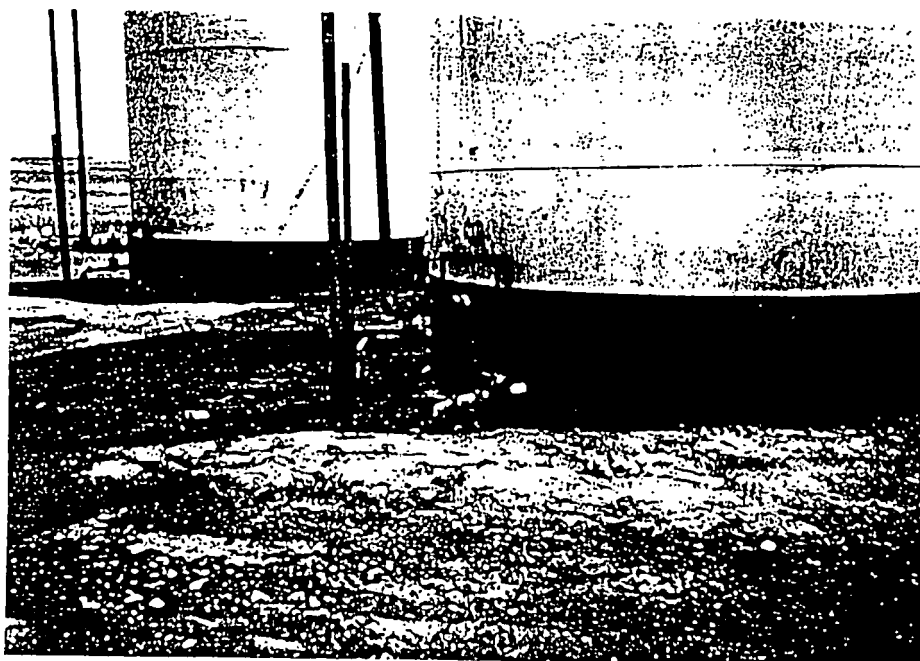
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# SPCC CASE # M95016-E.P.U. "G" BATTERY

NO DEFICIENCIES WERE NOTED. TANK BATTERY IS CLEARLY OUT OF SERVICE.

---

## SPCC CASE # M95017-E.P.U. SOUTH CENTRAL & "R" TANK BATTERIES



ITEM # 8 - INADEQUATE INSPECTION OF TANKS (LEAKY VALVE)

REMEDY - TIGHTENED PACKING ON VALVE TO STOP LEAK.

ITEM # 12 - OIL-SATURATED GROUND.

REMEDY - CLEANED UP OIL SOAKED GROUND FROM BENEATH THE VALVE.

G. D. Dwyer

Oil Engineer, U.S. Geological Survey

Report of Oil Engineer, U.S. Geological Survey, for the purpose of determining the cause of the oil spill.

Spill No. 1. Location: 1/4 Section 14, T28N, R31E, Roosevelt County, Montana.

1. 6" steel welded flowline developed leak in body of pipe caused by corrosion. (line is approximately 22 years old.)

2. 2450' NW of "C" Battery in NW of SW Section 14, T28N, R31E, Roosevelt County, Montana

3. Damage is in wheat stubble and involved approximately 9 barrels of produced water and 3/4 barrel of oil.

4. Damage found 8 P.M. 4/14/77 by land owner (Bob Eirn)

5. Shut in wells and isolated this section of line. This required approximately 1 hour from time of notification or 9 P.M. 4/14/77.

6. Bad section of pipe to be removed and replaced.

7. Pollutants to be buried.

8. ARCO 6-5/8", 18,976, 800# working pressure. Installed in 1954 and was used as gathering and shipping line.

9. Montana Department Of Natural Resources and Conservation Board.

10. April 15, 1977

11. District Superintendent

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Center at (303) 312-6473.



To: District Engineer, U.S. Geological Survey  
 From: District Superintendent, Murphy Oil Corporation, Pafford, Montana 59255  
 Subject: Oil Spill Report

Spill: \_\_\_\_\_ Cause: \_\_\_\_\_ Nature: \_\_\_\_\_ Location: \_\_\_\_\_

1. Describe Nature or Cause of Incident  
External corrosion of flowline

2. Location of Incident  
Section 11, T12N, R28W  
1320' West of N Battery

3. Estimate of Quantity of Oil and Volume of Pollution Incident  
2 Barrels of oil and water  
Covers an area 1350' long 50' at widest part and 20' at narrowest part  
Flowline Discharge drained downhill from East to West

4. Date and Time of Incident  
September 6, 1980 9:00 A.M.

5. Length of Time Required to Control Incident or Correct Pollution  
Closed flowline valve immediately upon discovery

6. Actions Taken to Prevent Recurrence  
Replace existing flowline with new 3" fiberglass pipe

7. Measures Taken to Clean Up Pollution  
Covered damaged area with clean dirt

8. For each of equipment, site, working and test procedures, date of installation, type of use, physical damage, etc., of any equipment causing or directly involved with the incident.  
2-7/2" steel tubing installed in 1976

9. Other Action or Other Agencies Notified or Involved  
Murphy Oil and Gas Corporation with copy of this form

Signature: B. J. Miller Date: September 22, 1980  
 Title: District Superintendent

INTER-OFFICE CORRESPONDENCE

FROM: M. T. James

LOC.: Poplar-P&E

DATE: September 27, 1968

TO: W. J. Thornton

LOC.: El Dorado-P&E

CARBONS TO: *File "H" Bat*

SUBJECT: Fire at EPU "H" Battery

Saturday morning, September 21, 1968, an electrical storm was in progress in the East Poplar Unit. At 7:10 A.M. on this date lightning struck tank no. 27 at EPU "H" Battery. The pumper, Mr. Ray Reede, was at salt water station no. 3 at the time of the explosion. Mr. Reede immediately shut in all wells going to the battery and notified the Poplar Fire Department and myself.

The lightning collapsed the deck in tank no. 27 and started a fire in tank no. 28. Upon arriving at the location the Poplar Fire Department quickly and efficiently extinguished the fire in both tanks. After allowing the tanks to cool and on closer inspection it was determined the work could commence on the connection work to get the battery on production again. On investigating the damage it was determined that tank no. 27 was a total loss and tank no. 28 could be used, but would require some work at a later date.

Just prior to starting connection work on tank no. 28 a white vapor was noticed coming from the tank, work was stopped immediately and equipment moved away from the tank. Before this information could be relayed to Mr. Brown the tank exploded and caught fire. The deck of this tank was blown clear of the vessel and due to breaks in lower seams oil was allowed to run over the location. Again the Fire Department and myself were notified of the development. Tank no. 28 caught fire at 11:05 A.M..

On Sunday, September 22, 1968 the location had cooled sufficiently to begin work on the location. Two 210 bbl. tanks were moved in and hooked up temporarily to allow production of wells in this battery. The treater was not damaged in any way during the fire. All wells were started production at 12:30 Noon on Sunday for a total down time of 29-1/2 hours.

The loss due to the fire is shown in tabular form below:

2 - 1000 bbl. tanks complete with stair and walkway (Price based on 1/3 of new price)	\$ 2,667.00
369 bbls. of oil at \$2.79 per bbl.	\$ 1,030.00
Sub Total	\$ 3,697.00
Labor to erect temporary battery	\$ 300.00
Fitting to make temporary battery	\$ 100.00
Lost production for 29-1/2 hours (97 bbls. at \$2.79)	\$ 270.00
Grand Total	\$ 4,367.00

At the present time we are in the process of moving the 300 bbl. tanks from the abandoned Tribal Brookman lease. The treater and circulating pump and motor was not damaged in the fire. No personnel were injured in either explosion or during the fire.

MTJ/sb

*M. T. James*

C-1524  
(Confirming)

AUTHORITY FOR EXPENDITURE

MURPHY OIL CORPORATION - EAST POPLAR UNIT "A" BATTERY

A.F.R. No. C-1524 confirming estimated expense to replace tanks that were struck by lightning and burnt.

ESTIMATED COST

Disconnect and move	\$ 276.50
Test tanks and hookup	\$ 309.50
Fitting	\$ 100.00
Tanks - 2 - 300 bbl. welded	\$ 1,155.00
Hookup	\$ 176.00
Move burnt tanks	\$ 150.00
Total Estimated Cost	\$ 2,167.00

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 681.00
Munoco Company	2.095565%	\$ 45.00
Placid Oil Company	33.545035%	\$ 727.00
Humble Oil & Refining Company	16.335850%	\$ 354.00
Drilling Specialties Company	16.335850%	\$ 354.00
C. F. Lundgren	.233210%	\$ 5.00

APPROVAL OF EXPENDITURE

Requested by:

APPROVED

*M. J. Jones*  
M. J. Jones

*W. J. Thompson*  
Date

W. J. Thompson

Date

WJT/cl  
October 7, 1968

AUTHORITY FOR EXPENDITURE  
MURPHY OIL CORPORATION - EAST POPLAR UNIT "R" BATTERY  
(HEATH SAND PRODUCTION)

The East Poplar Unit No. 7 was completed in the Heath Sand. Potential June 10, 1969 pumping at the rate of 329 BFPD 85% Water 49 BOPD 280 BWPD. Retested July 1, 1969 pumping 331 BFPD 85% Water 50 BOPD 281 BWPD.

East Poplar Unit No. 15 was completed in the Heath Sand. Potential June 10, 1969 pumping at the rate of 346 BFPD 14% Water 298 BOPD 48 BWPD. Latest test July 8, 1969 146 BFPD 34% Water 96 BOPD 50 BWPD.

Metering separator (stock) was set to allocate Heath Sand production and request was made to the U.S.G.S. for approval. Approval was denied but permission was verbally granted July 9, 1969 by phone from Mr. C. J. Curtis with the U.S.G.S. in Casper, Wyoming office to use the metering separator for 30 days until a tank battery could be set.

ESTIMATED COSTS

2 - 400 Welded Steel Tanks, Class No. 2 FOB Cut Bank, Montana	\$ 1,000
Trucking to move tanks to location	1,408
1 - 5' X 12' Horizontal Heater Treater	1,458
Misc. Connection and Labor to hookup	1,400
 TOTAL ESTIMATED COSTS	 5,266
Less Material on Hand	(2,458)
ESTIMATED NET COSTS	\$ 2,808

APPORTIONMENT OF TOTAL ESTIMATED COSTS

Murphy Oil Corporation	31.448470%	\$ 883
Placid Oil Company	33.545035%	1,766
Humble Oil & Refining Company	16.335860%	860
Phillips Petroleum Company	16.335860%	860
Munoco Company	2.096565%	110
C. F. Lundgren	.238210%	\$ 14

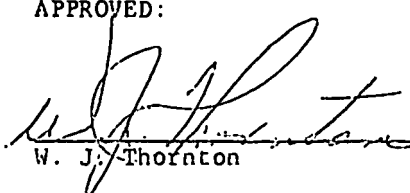
APPROVAL OF EXPENDITURE

Requested By:

APPROVED:

M. T. James

 7-9-69  
Date

  
W. J. Thornton

 7-11-69  
Date

AGREEMENT FOR EXPENDITURE  
MURPHY OIL CORPORATION - EAST FOLKLAND UNIT "M" BATTERY  
Supplement No. 1

Coverage due to under estimating the cost to move and set 2 - 500 bbl. tanks and a 6' X 27' trucker-trailer.

ESTIMATED COST

Misc. Labor, Trucking and Material (under estimated)	\$ 1,299.00
<b>TOTAL ESTIMATED COST</b>	<b>\$ 1,299.00</b>

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.443470%		\$ 409.00
Placid Oil Company	33.545035%		\$ 436.00
Humble Oil & Refining Company	16.335860%		\$ 212.00
Phillips Petroleum Company	16.335860%		\$ 212.00
Monoco Company	2.093555%		\$ 27.00
C. F. Lundgren	.236210%		\$ 3.00

APPROVAL OF EXPENDITURE

Requested by:

APPROVED:

<u>W. T. Jones</u> W. T. Jones	<u>10-9-69</u> Date H. J. Thornton	<u>                    </u> Date
-----------------------------------	---------------------------------------	-------------------------------------

MRJ/sb  
 October 9, 1969

File

A.F.E. No. 1-1509-10

AUTHORITY FOR EXPENDITURE

MURPHY OIL CORPORATION - EAST POPLAR UNIT "F" BATTERY.  
(Replace Heater Treater)

East Poplar Unit "F" Battery heater treater is corroded out beyond repair and is dangerous to men and property due to the possibility of fire. (There have been 4 leaks in May, 1971 through the 26 scattered over the vessel.) East Poplar Unit No. 12 (35 BOPD and 112 BWPD) and East Poplar Unit No. 39 (29 BOPD and 451 BWPD), 64 BOPD well test, produce into East Poplar Unit "F" Battery.

The new treater will have an expected life to deplete East Poplar Unit No. 12 and 39 and can be used to deplete other wells as treaters are required.

To-date we have failed to find a good used treater.

	<u>Estimated Cost</u>
1 - 4' X 20' Nat'l. Heater Treater (Set On Pad)	\$ 5,475
Credit For Junk 6' X 27' Nat'l. YCP Treater and move off location at Nat'l. expense	(50)
Anoids and Insulate	500
Connection to change to bottom fill tanks	400
Rebuild Treater House for 4' Treater	600
Misc. Labor, Trucking and Material	600
<b>TOTAL ESTIMATED COST</b>	<b>\$ 7,525</b>

<u>Apportionment Of Total Estimated Cost</u>		
Murphy Oil Corporation	31.448470%	\$ 2,367
Placid Oil Company	33.545035%	2,524
Humble Oil and Refining Company	16.335860%	1,229
Phillips Petroleum Company	16.335860%	1,229
Munoco Company	2.096565%	158
C. F. Lundgren	.238210%	18

APPROVAL OF EXPENDITURE

Requested By:

Approved By:

M. T. James

5-26-71  
Date

Ira Johnson

6-21-71  
Date

Alvin W. Simpson

6/23/71  
Date

AUTHORITY FOR EXPENDITUREMURPHY OIL CORPORATION - EAST POPLAR UNIT "F" BATTERY  
(Replace Heater Treater - Supplement No. 1)

This A.F.E. is to adjust A.F.E. No. 1-1509-10 for underage due to purchase of used treater. A.F.E. No. 1-1509-10 originally used price of new treater.

ESTIMATED COST

	<u>Estimated</u>	<u>Actual</u>	<u>Under</u>
1 - Used 4' dia. X 20' high National Treater (set on pad)	\$ 5,475(New)	\$ 3,000	(\$ 2,475)
Credit for junk 6' X 27' Nat'l. YCP Treater - Move off location at Nat'l expense	(\$ 50)	(\$ 50)	-----
Anoids and Insulate	\$ 500	\$ 224	(\$ 276)
Connection to change to bottom fill tanks	\$ 400	\$ 138	(\$ 262)
Rebuild Treater House for 4' Treater	\$ 600	\$ 230	(\$ 370)
Misc. Labor, Trucking and Material	\$ 600	\$ 588	(\$ 12)
<b>TOTAL</b>	<b>\$ 7,525</b>	<b>\$ 4,130</b>	<b>(\$ 3,395)</b>

APPORTIONMENT OF TOTAL ESTIMATED UNDERAGE

Murphy Oil Corporation	31.448470%	\$ 1,067
Placid Oil Company	33.545035%	\$ 1,139
Humble Oil & Refining Company	16.335860%	\$ 555
Phillips Petroleum Company	16.335860%	\$ 555
Munoco Company	2.096565%	\$ 71
C. F. Lundgren	.238210%	\$ 8

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

*M. T. James*  
M. T. James

*6-17-71*  
Date

*J. A. Johnson*  
J. A. Johnson

*6-17-71*  
Date

*Alvin Simpson*  
Alvin Simpson

*8/22/71*  
Date

MTJ/sb  
August 17, 1971



AUTHORITY FOR EXPENDITUREMURPHY OIL CORPORATION - EAST POPLAR UNIT "R" BATTERY  
(Confirming Heater Treater Repair)

A.F.E. No. 1-1523-10 is to confirm estimated cost to repair "R" battery treater (Heath Sand).

ESTIMATED COST

Sand Blast and Coat Interior of Treater	\$ 689
Misc. Material, Anodes, etc.	\$ 203
Labor, Welding, and Trucking	\$ 375
TOTAL ESTIMATED COST	\$1,267

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 398
Placid Oil Company	33.545035%	\$ 425
Humble Oil & Refining Company	16.335860%	\$ 207
Phillips Petroleum Company	16.335860%	\$ 207
Munoco Company	2.096565%	\$ 27
C. F. Lundgren	.239210%	\$ 3

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

<u>H. T. James</u>	<u>11-27-71</u>	<u>Alvin Simpson</u>	<u>          </u>
	Date		Date

AUTHORITY FOR EXPENDITUREMURPHY OIL CORPORATION - EAST POPLAR UNIT "D" BATTERY  
(Replace Decks On Storage Tanks)

Proposal and Justification: It is proposed to replace the decks on 2 H-1000 bbl. tanks at EPU D Battery.

The deck has collapsed on 1 tank and all deck sheets are corroded and have holes in them so that daylight can be seen through each deck sheet on both tanks. This constitutes a safety hazard when a man is required to work on the deck of either tank. Tank battery production averages 77 BOPD. The tank staves are in good shape.

ESTIMATED COST

Material To Replace Both Decks	\$ 2,800
Labor To Replace Both Decks	700
Misc. Labor, Trucking and Material	150
<b>TOTAL ESTIMATED COST</b>	<b>\$ 3,650</b>

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 1,148
Placid Oil Company	33.545035%	1,224
Humble Oil & Refining Company	16.335860%	596
Phillips Petroleum Company	16.335860%	596
Munoco Company	2.096565%	77
C. F. Lundgren	.238210%	9

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

W. G. Brown

Date

A. W. Simpson

Date

WGB/sb

February 28, 1972

Date Job Completed 4-4-72

approximate cost 4338

By Gerald Hagadone

The completed job was satisfactory but requires more parts and labor than originally A. F. E. P. Supplement made. net to incur additional \$700 expenditure

W. G. Brown

AUTHORITY FOR EXPENDITURE  
MURPHY OIL CORPORATION - EAST POPLAR UNIT SALT WATER SYSTEM

(Rubber Lined Pit)

Proposal and Justification: It is proposed to dig an emergency overflow pit between "D" battery and # 8-D disposal station and rubber line the pit.

A large earthen pit now serves as the overflow pit for "D" battery but we do not have a pit for East Poplar Unit No. 8-D. An overflow pit was planned for East Poplar Unit No. 8-D and \$5,000 saved from A.F.E. No. 3-1511-10 to dig and line a pit. In an effort to save land and money East Poplar Unit "D" battery and East Poplar Unit # 8-D overflow pits could be combined and the existing earthen pit covered up and the land returned to production. With the E.P.A. being as strong an agency as they are we would be in a better position to comply with their regulations.

ESTIMATED COST

Rubber Liner	\$ 4,300
Dig New Pit and Cover Old Pit	\$ 750
Labor To Lay Liner and Pipe	\$ 1,000
Fiberglass Linepipe and Fittings	\$ 2,500
Misc. Labor, Material and Trucking	\$ 250
Less \$5,000 appropriated on A.F.E. No. 3-1511-10	(\$ 5,000)
Total Estimated Cost	\$ 3,800

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 1,195
Placid Oil Company	33.545035%	\$ 1,275
Exxon Company, U.S.A.	16.335860%	\$ 621
Phillips Petroleum Company	16.335860%	\$ 621
Munoco Company	2.096565%	\$ 79
C. F. Lundgren	.238210%	\$ 9

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

<u>W. G. Brown</u>	<u>7-3-73</u>	_____	_____
W. G. Brown	Date	A. W. Simpson	Date

WCB/sb  
 June 3, 1973

REC. PROC. APR 19 1976

A.F.E. No. 6-1514-20

AUTHORITY FOR EXPENDITURE  
MURPHY OIL CORPORATION - POPLAR GATHERING SYSTEM  
("L" Battery Shipping Line)

Proposal and Justification: Propose to replace 900' of 3" steel shipping line with 3" A.O. Smith Silver Thread fiberglass. 500' would be replaced on the North end of line and 400' on South end before it junctions into 6" shipping line.

These two sections of line have had numerous leaks and need to be changed out.

ESTIMATED COST

Cost of 900' of 3" Fiberglass Line	\$ 1,314
Labor and Ditcher	\$ 1,800
Supervision	\$ 100
<b>TOTAL ESTIMATED COST</b>	<b>\$ 3,214</b>

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	46.875000%	\$ 1,507
Placid Oil Company	50.000000%	\$ 1,607
Munoco Company	3.125000%	\$ 100

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy S. Melear  
Billy S. Melear

4-13-76  
Date

A. W. Simpson  
A. W. Simpson

4/19/76  
Date

Job completed 4-18-76 at cost of \$3,214

A.F.E. No. 6-1520-10

AUTHORITY FOR EXPENDITURE  
MURPHY OIL CORPORATION - POPLAR GATHERING SYSTEM  
("K" Battery Shipping Line)

Proposal and Justification: It is proposed to replace 200' of 3" shipping line starting at the "K" battery tanks.

This section of line has had numerous leaks.

ESTIMATED COST

3" A.O. Smith Fiberglass	\$ 320
Labor and Ditching	\$ 500
Supervision	\$ 50
Total Estimated Cost	\$ 870

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	46.875000%	\$ 408
Placid Oil Company	50.000000%	\$ 500
Munoco Company	3.125000%	\$ 27

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy G. Melear  
Billy G. Melear

5-7-76  
Date

A. W. Simpson  
A. W. Simpson

5/10/76  
Date

A.F.E. No. 6-1527-10

(25)  
AUTHORITY FOR EXPENDITURE  
MURPHY OIL CORPORATION - EPI SALT WATER SYSTEM 7.6  
("K" Battery Salt Water Line) 29

It is proposed to replace 625' of 3" Class 1 - 100 Transite line with 3" Fiberglass line starting approximately 1700' West of the tank battery.

We are experiencing numerous leaks in this section of line.

ESTIMATED COST

625' of 3" Fiberglass	\$ 950
Roustabout Labor	\$ 825
Supervision	\$ 100
Total Estimated Cost	\$1,875

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.4484702	\$ 590
Placid Oil Company	1.5450357	\$ 629
Phillips Petroleum Company	16.3158607	\$ 306
Exxon Company, U.S.A.	16.3358692	\$ 306
Munoco Company	2.0655617	\$ 39
C. F. Lundgren	.2352107	\$ 5

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy G. Mclear

1, 76  
Date

A. W. Simpson

                      
Date

MURPHY OIL CORPORATIONAUTHORITY FOR EXPENDITURE - POPLAR GATHERING SYSTEM(K) BATTERY SHIPPING LINE <sup>as</sup>

It is proposed to change out 3" steel line with 5,000 2-7/8" condition #3 tubing and coat with Arcohib C-135 coating. This line did lay in pasture land, but the ground is now being deep broken in preparation for seeding. The weight of the farm equipment is evidently causing the line to leak. We have experienced numerous water leaks and it would be better to change out the line now rather than later when crops are planted.

ESTIMATED COST

Roustabout Labor and Equipment	5,000' @ \$2.00 per ft.	\$10,000.00
5,000' of condition #3 Tubing		<u>3,145.50</u>
TOTAL ESTIMATED COST		\$13,145.50

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	46.875000%	\$ 6,161.95
Placid Oil Company	50.000000%	6,572.75
Munoco Company	3.125000%	<u>410.80</u>
		\$13,145.50

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy G. Melear  
Billy G. Melear (SEA)

12/27/76 John W. Simpson 12/31/76  
Date Date

BGM/ha  
December 20, 1976

A.F.E. No. 7-151<sup>7</sup>-10

MURPHY OIL CORPORATION  
AUTHORITY FOR EXPENDITURE - EPU "H" BATTERY and "K" BATTERY  
 (Replace Gathering Line)

It is proposed to replace the 6-5/8" Gathering Line from "H" Battery to South Central Storage ("P" Battery) and bury the replacement line in the lease road ditch instead of in cultivated fields. This line has experienced numerous leaks the past year and has caused considerable crop and pollution damage. The line would require 7800' of line.

ESTIMATED COST

Equipment and Labor 1.50 Hr x 780	\$11,700
7800' of 5- 1/2", 15.00#, 55, 80, 100 S&W Casing (from EPU Stock)	6,229
1 Drum Arcoth C-135 Coating	300
<b>Total Estimated Cost</b>	<b>\$18,229</b>

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.18470%	\$ 5,733
Placid Oil Company	21.54503%	6,115
Phillips Petroleum Company	16.335860%	2,978
Exxon Company, U.S.A.	16.315810%	2,978
Munaco Company	2.095555%	382
C. F. Lundgren	2.38210%	43

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy G. Metear  
 Billy G. Metear

4-28-71  
 Date

A. W. Simpson  
 Date

                      
 Date



A.F.E. NO. 7-1517-010

MURPHY OIL CORPORATION  
AUTHORITY FOR EXPENDITURE - EPU "H" BATTERY AND "K" BATTERY  
EAST POPLAR UNIT, ROOSEVELT CO., MONTANA

REPLACE FLOW LINE

PROPOSAL & JUSTIFICATION

It is proposed to replace the 6 5/8" Total Fluid Flowline from "H" Battery to the South Central Storage Battery ("D" Battery) and bury the replacement line in the lease road ditch instead of in cultivated fields. This line has experienced numerous leaks the past year and has caused considerable crop and pollution damage. Replacement is an operating necessity.

ESTIMATED COST

7800' of 5 1/2" O.D., 15.50#, J-55, 8rd, ST&C Casing (from EPU Stock)-----\$ 6,229  
Equipment and Labor, \$1.50/ft. x 7800'----- 11,700  
1 Drum Arcohib C-135 Coating----- 300  
TOTAL ESTIMATED COST -----\$ 18,229

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 5,733
Placid Oil Company	33.545035%	6,115
Phillips Petroleum Company	16.335860%	2,978
Exxon Company, U.S.A.	16.335860%	2,978
Munoco Company	2.096565%	382
C. F. Lundgren	.238210%	43

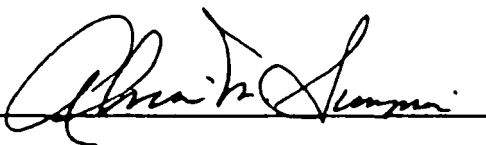
APPROVAL OF EXPENDITURE

Requested:

APPROVED:

BILLY G. MELEAR

5-5-77  
Date



5/5/77  
Date

12. NOV 23 1977

A.P.E. No. 7-1517-10-51

MURPHY OIL CORPORATION  
AUTHORITY FOR EXPENDITURE - EPU "H" BATTERY AND "K" BATTERY  
EAST POPLAR UNIT, ROOSEVELT CO., MONTANA

This A.P.E. was overspent because no trucking cost was allowed to move the casing from stock to the field. Also 8200' of line was replace instead of the 7800' originally stated in the A.P.E.. Openings were left in the 3-1/2" line to tie in No. 101, No. 9 and No. 6. This caused additional labor and connection cost.

ESTIMATED COST

	Original A.P.E.	Actual Cost	Supplement No. 1
7800' of 3-1/2" Casing	\$ 6,279	\$ 6,588	\$ 359
Equipment and Labor	\$11,700	\$13,957	\$ 4,257
1 Drum Arcobib C-135 Coating	\$ 300	\$ 580	\$ 280
Total Estimated Cost:	\$18,279	\$23,125	\$ 4,896

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 5,733	\$ 7,272	\$ 1,539
Pined Oil Company	33.545035%	\$ 6,115	\$ 7,757	\$ 1,642
Phillips Petroleum Company	16.339860%	\$ 2,978	\$ 3,778	\$ 800
Exxon Company, U.S.A.	16.339860%	\$ 2,978	\$ 3,778	\$ 800
Munoco Company	2.096565%	\$ 382	\$ 485	\$ 103
C. F. Lundgren	.238210%	\$ 43	\$ 55	\$ 12

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy M. Melcer  
Billy M. Melcer

11-11-77  
Date

A. C. Simpson  
A. C. Simpson

11-24-77  
Date

ab  
November 16, 1977

MURPHY OIL CORPORATION  
AUTHORITY FOR EXPENDITURE - POPLAR GATHERING SYSTEM  
"K" Battery

Due to numerous leaks, it is proposed to replace 1100' of 3" line starting approximately 1200' West of "K" Battery. This steel 3" line would be replaced with a 3" Silver thread fiberglass pipe.

ESTIMATED COST

1100' of 3" Silverthread Pipe and Connections	\$ 2,300
Roustabout and Ditching	\$ 1,400
Supervision and Misc.	\$ 400
Total Estimated Cost	\$ 4,100

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	46.875000%	\$ 1,922
Placid Oil Company	50.000000%	\$ 2,050
Munoco Company	3.125000%	\$ 128

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy G. Melear  
 Billy G. Melear

9-11-50  
 Date

A. W. Simpson

                      
 Date

MURPHY OIL CORPORATION  
 AUTHORITY FOR EXPENDITURE  
 EAST POPLAR UNIT SALT WATER DISPOSAL SYSTEM  
 SWD STATION NO. 4, LOCATED NW SE Sec. 10-T28N-R51E  
 ROOSEVELT COUNTY, MONTANA - EAST POPLAR FIELD

REVAMP SWD STATION NO. 4

PROPOSAL & JUSTIFICATION:

Salt water produced from wells in the southern part of the East Poplar Unit into SWD Station No. 4 is disposed into the Judith River Formation via SWD Well No. 8-D. This salt water currently being produced at a rate of 7,500 BPD is being injected by use of a Multi-Stage Peerless Pump with a surface pressure of 600 psig. Considerable downtime is being experienced with this Peerless Pump which in turn makes it necessary that producing wells be shut in for extended periods of time.

An Oilwell 346-P Triplex Pump is installed at SWD Station No. 4 and serves as a standby pump. This pump will handle 6000 BWPD which is less than the current average rate in this part of the Unit.

It is proposed that an additional Oilwell 346-P Triplex Pump be installed at Station No. 4. This will enable the handling of the current saltwater production rate on a continuous basis with approximately 4500 BPD of extra capacity. The Peerless Pump would be used as a standby pump.

ESTIMATED COSTS

Oilwell 346-P W/Skid and Oiler, 3 3/4" Plungers, Aluminum-Bronze	
Fluid End-----	\$27,000
Services of Electrician-----	\$ 1,200
Control Panel-----	\$ 800
Sheave, Belts, and Pulsation Dampener-----	\$ 4,200
Welding and Connections-----	\$ 2,100
Roustabout Labor and materials for cement foundation-----	\$ 2,400
Supervision and Miscellaneous-----	\$ 1,300
TOTAL ESTIMATED COST-----	\$39,000

APPORTIONMENT OF TOTAL ESTIMATED COST


Murphy Oil Corporation	31.448470%	\$12,265
Placid Oil Company	33.545035%	\$13,083
Phillips Petroleum Company	16.335860%	\$ 6,371
Exxon Company, U.S.A.	16.335860%	\$ 6,371
Munoco Company	2.096565%	\$ 818
C. F. Lundgren	.238210%	\$ 92

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy G. Melear      9/10/80

 10/1/80  
Date

ch  
10/1/80

(OFD)

*Approved estimate  
 Cost 44,638*

A.P.E. No. 0-1536-10

MURPHY OIL CORPORATION<sup>39</sup>  
AUTHORITY FOR EXPENDITURE - SOUTH CENTRAL TANK BATTERY <sup>23</sup>

Due to numerous leaks in the oil dump flowline from the free-water knockout to the tank battery, it is proposed to replace the existing 2" steel line with 2" sliver thread fiberglass.

ESTIMATED COST <sup>93</sup>

750' of Fiberglass Pipe, connections and glue kits.	\$ 1,260
Labor and Ditching	\$ 940
Supervision and Misc.	\$ 350
Total Estimated Cost	\$ 2,550

APPORTIONMENT OF TOTAL ESTIMATED COST <sup>32</sup>

Murphy Oil Corporation	31.448470%	\$ 865
Placid Oil Company	33.545035%	\$ 922
Phillips Petroleum Company	16.335860%	\$ 449
Exxon Company, U.S.A.	16.335860%	\$ 449
Munoco Company	2.096565%	\$ 58
C. F. Lundgren	.238210%	\$ 7

APPROVAL OF EXPENDITURE <sup>37</sup>

Requested by:

Approved by:

Billy G. Melear  
Billy G. Melear

9-11-80  
Date

A. W. Simpson

                      
Date

069  
11/22

MURPHY OIL CORPORATION  
AUTHORITY FOR EXPENDITURE - E.P.U. "C" BATTERY

AMOUNT \$22,000

We have had numerous leaks in this reactor. It is proposed to move the reactor from "E" Battery to "C" Battery.

ESTIMATED COST

Roughabout	\$ 3,000
Connections	\$ 750
Trucking	\$ 1,000
Misc. & Supervision	\$ 500
TOTAL ESTIMATED COST	\$ 5,250

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 1,651
Petro-Link Corporation	33.545035%	\$ 1,761
Phillips Petroleum Co.	16.335860%	\$ 858
Exxon Company, U.S.A.	16.335860%	\$ 858
Munoco Company	2.096565%	\$ 110
C.P. Lundgren	2.28210%	\$ 13

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Raymond Reede  
Raymond Reede

Date

A.W. Simpson  
A.W. Simpson

Date

RE/bv  
November 17, 1982

060

DATE JOB COMPLETED Nov. 1982  
APPROXIMATE COST 7,602  
BY \_\_\_\_\_

A.F.E. 1-22

CH 17

MEMO. JAN 13 1933

A.F.E. No. 2-1508-10-51

MURPHY OIL CORPORATION  
AUTHORITY FOR EXPENDITURE - F.P.U. "C" RATHERY

The roustabout labor and the connections for the tractor were more than what we had anticipated. The trucking and the misc. and supervision were less than we had figured it for. But we still went over the amount we had planned for.

ESTIMATED COST

	Original Cost	Actual Cost	Supplement No. 1
Roustabout	\$ 3,000	\$ 3,388	\$ 2,588
Connections	\$ 750	\$ 1,021	\$ 271
Trucking	\$ 1,000	\$ 840	\$ ( 160)
Misc & Supervision	\$ 500	\$ 153	\$ ( 347)
<b>TOTAL COST</b>	<b>\$ 5,250</b>	<b>\$ 7,602</b>	<b>\$ 2,352</b>

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 1,631	\$ 2,391	\$ 740
Petro-Lewis Corporation	33.545035%	\$ 1,761	\$ 2,550	\$ 789
Phillips Petroleum Co.	16.335860%	\$ 858	\$ 1,242	\$ 384
Exxon Company, U.S.A.	16.335860%	\$ 858	\$ 1,242	\$ 384
Munaco Company	2.096365%	\$ 110	\$ 159	\$ 49
C.F. Lundgren	.738210%	\$ 13	\$ 18	\$ 6

APPROVAL OF EXPENDITURE

Requested by:

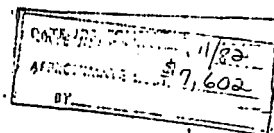
Approved by:

*Raymond Reuda*  
 Raymond Reuda

12-5-32  
 Date

*A. Simpson* 1/19/33  
 A. Simpson Date

RR/bv  
 December 30, 1982



DEC. 1984, APR 10 1984

A.P.E. No. 4-1507-10

MURPHY OIL USA, INC.  
AUTHORITY FOR EXPENDITURE - ROOSEVELT COUNTY, MONTANA  
EAST POPLAR UNIT SOUTH CENTRAL TANK BATTERY

PROPOSAL & JUSTIFICATION:

The 1000 barrel stock tanks at South Central Tank Battery have had numerous leaks and need to be replaced. It is proposed to replace them with 2 welded 500 barrel cone bottom tanks.

ESTIMATED COST

2-500 barrel welded cone bottom tanks	\$ 9,700
Roughabout	3,500
Vacuum Truck	400
Supervision and Miscellaneous.	1,400
TOTAL ESTIMATED COST	\$15,000

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil USA, Inc.	31.448470%	\$ 4,712
Petro-Lewia Corporation	33.345035%	5,072
Kosmos Company, U.S.A.	16.335860%	2,450
Phillips Petroleum	16.335860%	2,450
Mundco Company	2.095565%	315
C.P. Lundgren	.238210%	36

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Raymond Reede

Date

A. R. Simpson

Date

RR/jh  
April 24, 1984

(Soc)

DATE JOB COMPLETED	6-20-84
APPROXIMATE COST	\$15,400.00
BY	R.R.



A.P.E. NO. 4-1511-010

MURPHY OIL USA, INC.  
AUTHORITY FOR EXPENDITURE  
TANK BATTERY "C" - EAST POPLAR UNIT  
ROOSEVELT COUNTY, MONTANA

PROPOSAL & JUSTIFICATION:

It is proposed to replace the #12 tank at "C" Battery. This tank has developed numerous leaks in the recent past and is leaking at this time. It is apparent that repairs are temporary and with winter coming, it is proposed to replace the tank with a 300-Barrel Welded Steel Cone Bottom Tank.

ESTIMATED COST

1 - 300-Barrel Welded Steel Cone Bottom Tank -----	\$ 3,400
Houstablet Labor-----	2,000
Vacuum Truck-----	550
Supervision and Miscellaneous-----	1,400
Total Estimated Costs	\$ 7,350

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil USA, Inc.	31.440470%	\$ 2,311
Petro-Lewis Corporation	33.545035%	2,466
Exxon Company USA	16.335860%	1,201
Phillips Petroleum Co.	16.335860%	1,201
Munoco Company	2.096565%	154
C. P. Lundgren	.238210%	17

APPROVAL OF EXPENDITURE

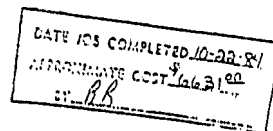
Requested by:

Approved by:

Raymond Reede 9/27/84  
Date

*[Signature]* 10/1/84  
Date

RR/cs  
10/2/84  
(SOC)



CASH EXPENDITURE  
QUARTER  
FUTURE  
(SEE INSTRUCTIONS FOR FUTURE)

A.F.E. No. 5-1506-010

MURPHY OIL USA, INC.  
AUTHORITY FOR EXPENDITURE  
TANK BATTERY "C" - EAST POPLAR UNIT  
ROOSEVELT COUNTY, MONTANA

PROPOSAL & JUSTIFICATION:

The 4' x 22' vertical treater at "C" Battery has had numerous leaks in it. It is proposed to replace this treater with the 4' x 22' vertical treater that is at the "F" Battery location. The bottom 6' of this treater will be sandblasted and coated before it is moved.

ESTIMATED COST

Sandblasting & Coating-----	\$ 900
Trucking-----	1,000
Roustabout-----	1,100
Connections-----	500
Supervision & Miscellaneous-----	500

Total Estimated Costs \$ 4,000

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil USA, Inc.	31.446470%	\$ 1,258
Fairway Resources, Inc.	29.351906%	\$ 1,174
Phillips Petroleum Co.	16.335860%	\$ 653
Exxon Company USA	16.335860%	\$ 653
TPEX Exploration, Inc.	4.193125%	\$ 168
Munoco Company	2.096565%	\$ 84
C. F. Lundgren	.238210%	\$ 10

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Raymond Reede 3/12/85  
Date

*[Signature]* 2/14/85  
Date

RR/cc  
3/19/85

(UFD)

Note  
Distribution  
Change!  
For EPU

DATE JOB COMPLETED	_____
APPROXIMATE COST	_____
BY	_____

CASH EXPENDITURE			
QUARTER			
FIRST	SECOND	THIRD	FOURTH

100.0000 1/13 1985

5/10/85

A.P.E. NO. 5-1510-10

MURPHY OIL USA, INC.  
AUTHORITY FOR EXPENDITURE  
TANK BATTERY "C" - EAST POPLAR UNIT  
ROOSEVELT COUNTY, MONTANA

PROPOSAL & JUSTIFICATION:

The 1000 barrel tank at "C" Battery has had numerous leaks and needs to be replaced. It is proposed to move a 500 barrel bolted tank from 80-D to "C" Battery.

ESTIMATED COST

Trucking	\$ 300
Roustabout	1,500
Connections	100
Supervision & Miscellaneous	200
Total Estimated Cost	\$2,500

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil USA, Inc.	31.448470%	\$ 786
Fairway Resources, Inc.	29.351906%	734
Phillips Petroleum Co.	16.335860%	408
Exxon Company	16.335860%	408
TPEX Exploration, Inc.	4.193129%	105
Hunoco Company	2.096565%	53
C. F. Lundgren	.238210%	6

APPROVAL OF EXPENDITURE

Requested by: Raymond Roads Approved by: A. W. Simpson  
Date: 5/11/85

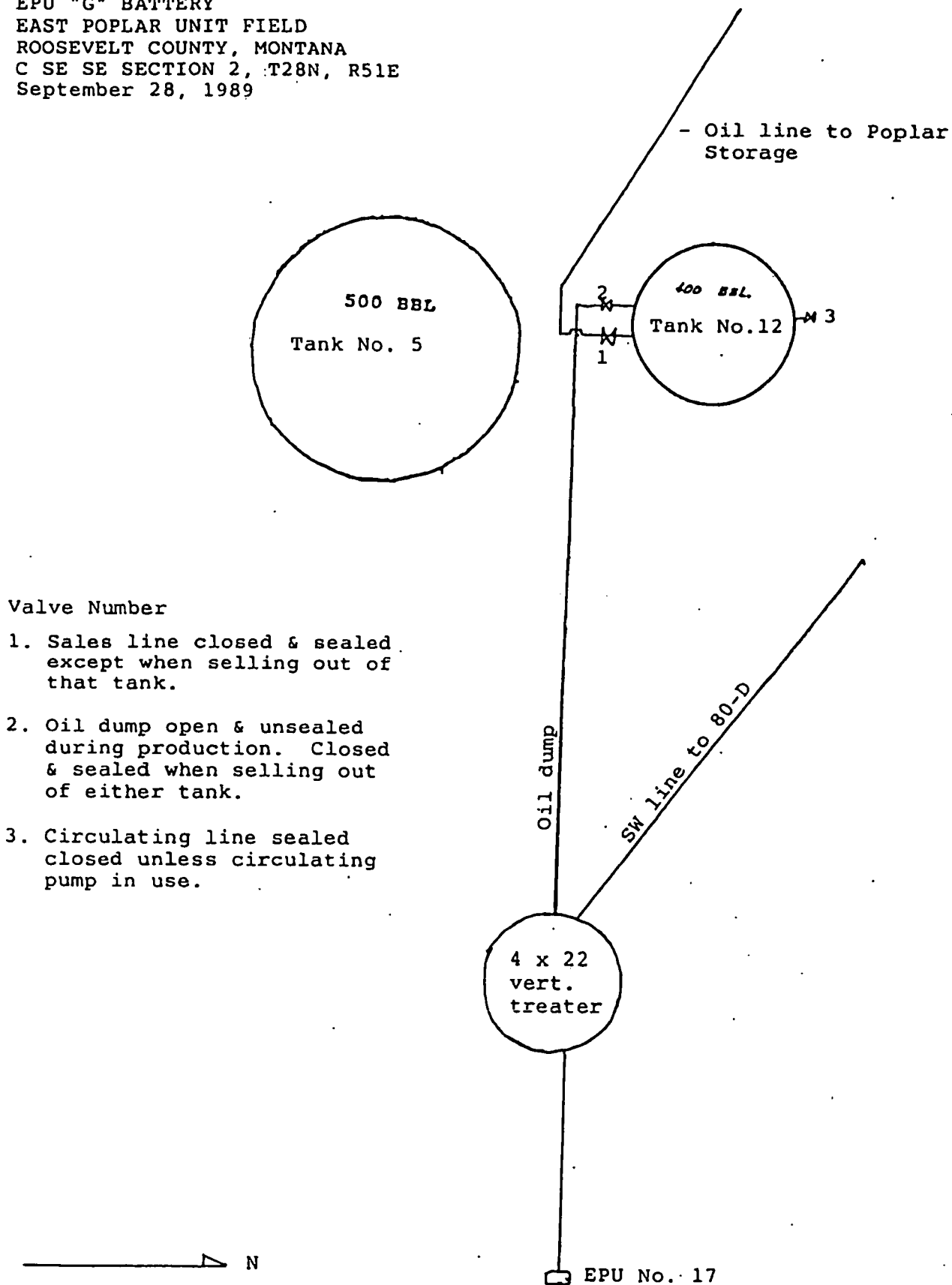
RR/jh  
May 9, 1985

(500)

DATE JOB COMPLETED 6-20-85  
APPROXIMATE COST \$1,891  
BY ER

CASH EXPENDITURE  
QUARTER  
FIRST SECOND THIRD FOURTH  
☐ ☒ ☐ ☐

MURPHY OIL USA, INC.  
EPU "G" BATTERY  
EAST POPLAR UNIT FIELD  
ROOSEVELT COUNTY, MONTANA  
C SE SE SECTION 2, T28N, R51E  
September 28, 1989



MURPHY OIL USA, INC.  
AUTHORITY FOR EXPENDITURE  
EAST POPLAR UNIT SOUTH CENTRAL BATTERY  
SECTION 10, T28N, R51E  
ROOSEVELT COUNTY, MONTANA

PROPOSAL & JUSTIFICATION:

We have had numerous leaks in the 5-1/2" main line going to South Central Tank Battery. It is proposed to replace this line with 4" A.O. Smith Red Thread II fiberglass pipe.

ESTIMATED COST

2200' 4" A.O. Smith Red Thread II Fiberglass Pipe	\$ 8,800
Connections	500
Ditching, Laying and Backfilling	4,400
Supervision & Miscellaneous	1,300
TOTAL ESTIMATED COST	\$15,000

APORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil USA, Inc.	60.363718	\$ 9,054
Exxon Company U.S.A.	16.335860	2,451
Doil Oil & Gas Corp.	20.965647	3,145
Munoco	2.096565	314
C. F. Lundgren	.238210	36

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Raymond Reede  
Raymond Reede

12-11-90  
Date

Paul E Ramsey  
Paul Ramsey

12/17/90  
Date

RR/sb  
December 11, 1990

DATE JOB COMPLETED.....
APPROXIMATE COST.....
BY.....

U-6/2/93  
A.F.E. No. 30618

MURPHY EXPLORATION & PRODUCTION COMPANY  
AUTHORITY FOR EXPENDITURE  
EPU PRODUCTION  
ROOSEVELT COUNTY, MONTANA

Replace Total Fluid Line  
From EPU No. 12 to 11

PROPOSAL & JUSTIFICATION

The total fluid line that runs from EPU No. 12 to No. 11 has had numerous leaks in it. This line handles the total fluid from EPU No. 12 and No. 19.

It is proposed to replace this line with 3" A.O. Smith Red Thread II fiberglass pipe.

ESTIMATED COST

2640' - 3" A.O. Smith Red Thread II Pipe -----	\$ 7,000
Ditching & laying -----	4,020
Connections -----	500
Supervision & Miscellaneous -----	480
TOTAL ESTIMATED COST	\$12,000

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Expl. & Prod Co.	60.363710%	7,244
Doll Oil & Gas	20.965647%	2,516
Exxon Company U.S.A.	16.335860%	1,960
Munoco Company	2.096565%	252
C.F. Lundgren	.238210%	28

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Raymond Reade 5-14-93 Sidney W. Campbell 5-20-93  
Raymond Reade Date Sidney Campbell Date

Paul E. Ramsey 5-21-93  
Paul Ramsey Date

RR/jh  
May 14, 1993

DATE JOB COMPLETED	_____
APPROXIMATE COST	_____
BY	_____

D-023/94

A.F.E. No. 40606

MURPHY EXPLORATION AND PRODUCTION COMPANY  
 AUTHORITY FOR EXPENDITURE  
 EAST POPLAR UNIT A BATTERY  
 EAST POPLAR FIELD - ROOSEVELT COUNTY, MONTANA

PROPOSAL AND JUSTIFICATION:

It is proposed to lay a total fluid line (3" A.O. Smith fiberglass) from EPU NO. 1 to EPU No. 15 and then use existing flowlines to South Central Tank Battery.

Production at "A" Battery is 15 BOPD. The proposed line would save trucking costs, allow for abandonment of "A" Battery facilities, and reduce operating cost for this production within the Unit.

Payout at present rates and current oil prices is estimated to be eight (8) months.

ESTIMATED COSTS

6000' - 3" Fiberglass pipe @ \$2.65 per ft. -----	\$15,900
Ditching & Laying -----	9,600
Connections -----	500
Supervision and Miscellaneous -----	\$ 900
Total Estimated Cost -----	\$27,000

APPORTIONMENT OF TOTAL ESTIMATED COST

MURPHY EXPRO	60.363718%	\$16,298
Doll Oil & Gas	20.985647%	5,661
Exxon Company	16.135860%	4,411
Mundco	2.096565%	566
C. F. Lundgren	.238210%	64

APPROVAL OF EXPENDITURE

Requested By:

Approved By:

Raymond Rende 06/01/94

Date

*John W. Campbell* 6/1/94  
 Date

*Paul E. Ramsey* 6/14/94  
 Date

DATE JOBS COMPLETED	_____
APPROXIMATE COST	_____
BY	_____

June 14, 1994

D-7/31/96

A.P.N. No. 60609  
OBJECT CODE: 332910

MURPHY EXPLORATION AND PRODUCTION COMPANY  
AUTHORITY FOR EXPENDITURE  
EAST POPLAR PRODUCTION  
REPLACE SECTION TOTAL FLUID LINE  
H BATTERY TOTAL FLUID LINE  
ROOSEVELT COUNTY, MONTANA

PROPOSAL AND JUSTIFICATION:

The 5-1/2" steel gathering line from H Battery to South Central Tank Battery has had two (2) leaks in the past year. Visual inspection of the line showed extensive external corrosion.

It is proposed to replace this line with 3" fiberglass pipe.

ESTIMATED COSTS

6000' 3" A.O. Smith Red Thread II Fiberglass	
Pipe @ \$2.95 per foot -----	\$17,700
Ditching and Laying line -----	9,600
Connections -----	500
Supervision & Miscellaneous -----	1,200
Total Estimated Cost -----	\$29,000

APPORTIONMENT OF TOTAL ESTIMATED COST

MURPHY EXPRO	76.937788%	\$22,312
DOIL OIL & GAS	20.965647%	6,080
MUNOCO COMPANY	02.096565%	608

APPROVAL OF EXPENDITURE

Requested By:

Approved By:

Rav Rende 07/18/96  
Date

*Adrian W. Campbell* 7/29/96  
Date

July 29, 1996

Date



λ :

.. D- 1/20/58

A.P.E. No. 80606  
OBJECT CODE: 232910

MURPHY EXPLORATION AND PRODUCTION COMPANY  
AUTHORITY FOR EXPENDITURE  
EAST POPLAR UNIT R BATTERY  
SW NW SECTION 11, T28N, R51E  
ROOSEVELT COUNTY, MONTANA

PROPOSAL AND JUSTIFICATION:

There are 2 X 400-barrel tanks at R Battery and they are both in bad shape. It is proposed to replace these tanks with 2 used 400 barrel coated tanks. This battery handles the oil from East Poplar Unit No. 7 well which produces 28 BOPD and 671 BWPD.

ESTIMATED COSTS

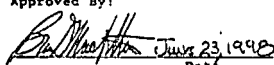
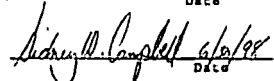
2 X Cond. 2 400 Barrel Coated Tanks	\$ 7,000
Trucking	1,500
Roustabouts	1,000
Supervision and Misc.	<u>500</u>
Total Estimated Cost	\$10,000

APPORTIONMENT OF TOTAL ESTIMATED COST

MURPHY EXPRO	76.937788%	\$ 7,694
DOIL OIL & GAS	20.965647%	2,096
MUNOCO COMPANY	2.096565%	210

APPROVAL OF EXPENDITURE

Requested By:  
Ray Reede 6/23/98

Approved By:  
 June 23, 1998  
Date  
 6/23/98  
Date

D - 8/4/98

A.P.R. No. 80608  
OBJECT CODE: 232910MURPHY EXPLORATION AND PRODUCTION COMPANY  
AUTHORITY FOR EXPENDITURE  
EAST POPLAR UNIT CENTRAL TANK BATTERY  
SW 1/4 NW SECTION 10, T28N, R51E  
ROOSEVELT COUNTY, MONTANAPROPOSAL AND JUSTIFICATION:

There are 2 X 500-barrel tanks at South Central Tank Battery. Tank No. 67 developed 3 holes in it. The taps are gone on both tanks. It is proposed to replace these tanks with 2 used 400-barrel, coated tanks. This battery handled the oil from the southern portion of the unit, which amounts to approximately 96 BOPD.

ESTIMATED COSTS

2 X Cond. 2 400 Barrel Coated Tanks	3 7,000
Trucking	1,500
Reconnects	1,500
Connection	500
Supervision and Misc.	500
Total Estimated Cost	\$11,000

APPORTIONMENT OF TOTAL ESTIMATED COST

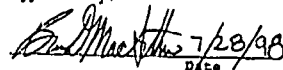
MURPHY EXPRO	75.937766%	\$ 8,463
DOIL OIL & GAS	20.965647%	2,306
MUNOCO COMPANY	2.096565%	231

APPROVAL OF EXPENDITURE

Requested By:

Ray Reade 7/20/98

Approved By:


  
Date 7/28/98


  
Date 7/28/98

A.F.E. No. 6-1525-40

AUTHORITY FOR EXPENDITURE  
MURPHY OIL CORPORATION - EPU SALT WATER SYSTEM  
("K" Battery Salt Water Line)

It is proposed to replace 90' of Class - 100 3" line at the road crossing with 3-1/2" steel line pipe. We have experienced numerous leaks in this area due to weight exerted on the line during wet weather.

ESTIMATED COST

90' of 3-1/2", No. 2 Plain end Line Pipe  
Labor and Welder  
Supervision and Misc.  
Total Estimated Cost

\$ 75  
\$ 500  
\$ 100  
\$ 675

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation  
Placid Oil Company  
Phillips Petroleum Company  
Exxon Company, U.S.A.  
Munoco Company  
C. F. Lundgren

31.4484707  
33.5450357  
16.3358607  
16.3358607  
2.0965657  
.2382107

\$ 213  
\$ 226  
\$ 110  
\$ 180  
\$ 14  
\$ 2

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

A.P.E. No. 6-1558-10-S1

MURPHY OIL CORPORATION  
· AUTHORITY FOR EXPENDITURE · POPLAR CATHERING SYSTEM  
"K" Battery Shipping Line

This A.P.E. was underspent by \$1,837. 4,206' of line was changed out instead of 5,000'. This caused both the cost of the pipe and roustabout labor to be less than anticipated.

ESTIMATED COST

	<u>Estimated</u> <u>Cost</u>	<u>Actual</u> <u>Cost</u>	<u>Supplement</u> <u>No. 1</u>
Roustabout Labor and Equipment			
5,000' @ \$2.00 per ft.	\$ 10,000.00	\$ 8,735.00	(\$ 1,265.00)
5,000' of Condition No. 3 Tubing	\$ 3,145.50	\$ 2,573.25	(\$ 572.25)
Total Estimated Cost	\$ 13,145.50	\$11,308.25	(\$ 1,837.25)

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	46.875000%	\$ 6,161.95	\$ 5,300.74	(\$ 862.21)
Placid Oil Company	50.000000%	\$ 6,573.75	\$ 5,654.13	(\$ 919.62)
Munoco Company	3.125000%	\$ 410.80	\$ 353.38	(\$ 57.42)

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Billy G. Mclear  
Billy G. Mclear

Date  
Date

A. W. Simpson  
A. W. Simpson

Date  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-1-1-1  
Expires August 31, 1985  
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Tank Battery	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR	9. WELL NO.
MURPHY OIL USA, INC.	South Central & R Btry
P.O. BOX 547, POPLAR, MT 59255	10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface	EAST Poplar Unit
11. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
15. ELEVATIONS (Show whether OF, AT, OR, ETC.)	NE SE SEC. 10, T28N, R51E
	12. COUNTY OR PARISH
	13. STATE
	ROOSEVELT
	MT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRAC TURE TREAT	<input type="checkbox"/>	FRAC TURE TREATMENT	<input type="checkbox"/>
RISE IN ACIDIZING	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input checked="" type="checkbox"/>		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

AT THIS TIME WE REQUEST PERMISSION TO USE ONE CIRCULATING PUMP FOR THESE TWO TANK BATTERIES. THE VALVES ON THE CIRCULATING PUMP AND LINES ARE CLOSED AND SEALED EXCEPT WHEN CIRCULATING OUT OF A TANK AND AT NO TIME DO WE CIRCULATE OUT OF TWO TANKS AT ONCE. THE OIL FROM THESE BATTERIES ARE NEVER COMINGLED.

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Raymond Reede</u>	TITLE <u>DISTRICT MANAGER</u>	DATE <u>8-25-88</u>
(This space for Federal or State office use)		
APPROVED BY <u>Arnold E. Dargatzis</u>	TITLE <u>ADM-MINERALS</u>	DATE <u>AUG 30 1988</u>
CONDITIONS OF APPROVAL, IF ANY:		

\*See Instructions on Reverse Side

See Attached for  
Conditions of Approval

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

Budget Bureau No. 11004-1-1-1  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL A

East Poplar Unit

6. IF INDIAN, ALLOTTEE OR TRUST NAME

7. UNIT AGREEMENT NAME

East Poplar Unit

8. FARM OR LEASE NAME

9. WELL NO.

R Battery

10. FIELD AND POOL, OR WILDCAT

East Poplar Unit

11. SEC., T., R., M., OR BLE. AND  
SURVEY OR AREA

NE SE Section 10,

T28N, R51E

12. COUNTY OR PARISH

13. STATE

Roosevelt

Montana

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Murphy Oil USA, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 547, Poplar, Montana 59255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

14. PERMIT NO.

15. ELEVATIONS (Show whether DT, RT, CR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZING

REPAIR WELL

PILL OR ALTER Casing

MULTIPLE COMPLETION

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Other) Report Of Fire

X

(Note: Report results of multiple completion or Well Completion or Recombination Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

At 9:15 A.M. on May 12, 1989 Tank No. 1403 at R Battery, East Poplar Unit Field was struck by lighting. The Poplar Fire Department was called. The fire died before the arrival of the fire department but foam was put in the tank as a precautionary measure. There was no personal injuries, no property damage or loss of oil from the fire.

MAY 1989  
Bureau of Land  
Management  
Missoula City,  
Montana

18. I hereby certify that the foregoing is true and correct

SIGNED Raymond Reed

TITLE District Manager

DATE May 16, 1989

(This space for Federal or State official use)

ACCEPTED David E. Dungen

ADM-Minerals

TITLE

DATE MAY 18 1989

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OP



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Missoula City District Office  
P.O. Box 844  
Missoula City, Montana 59701-0844

IN REPLY, REFER TO:  
3160

SEP 20 1995

Certified Mail-Return Receipt Requested

Murphy Exploration & Production  
Attn: Ray Reede  
P.O. Box 547  
Poplar, Montana 59255

Written Order:

Facilities: Tank Battery, SE NE Sec. 7, T28N, R51E *G*  
Tank Battery, SE NE Sec. 13, T28N, R50E *J*  
Tank Battery, NE SW Sec. 23, T28N, R51E *J*

Dear Mr. Reede:

The above referenced sites were inspected during August, 1995. The inspections showed that the Tank Batteries appear to be abandoned and are no longer in use for benefit of Unit operations.

A Sundry Notice must be submitted to this office describing the proposed clean-up and reclamation actions at each site. The Sundry Notices must be submitted within 30 days after receipt of this letter.

You may request a State Director Review (SDR) of this Written Order under 43 CFR 3165.1. Your request must be filed within 30 business days after receipt of the letter with the BLM Montana State Director, P.O. Box 16800, Billings, Montana 59107. The SDR decision may be appealed to the Office of Hearings and Appeals, Washington, D.C. under 43 CFR 3165.4. Failure to timely request an SDR or file an appeal with BLM will preclude any further administrative review of this Written Order.

We appreciate your cooperation in this matter. Please contact David Brimish at (406)232-7001 if you have any questions or if you would like to schedule a site inspection.

Sincerely,

*Mary Alice Spencer*

Assistant District Manager  
Division of Mineral Resources

cc: BIA, T. Ankertell

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 152A-4213  
Expires March 31, 1983

SUNDARY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well  
☐ Oil ☐ Gas ☒ Other Tank Battery Facility

2. Name of Operator  
Murphy Exploration & Production Company

3. Address and Telephone No.  
P.O. Box 547, Poplar, MT 59255 (406-768-3612)

4. Location of Well (County, State, T., R., or Survey Description)  
SE SE Section 2, T28N, R51E

5. Lease Designation and Serial No.  
6. If Indicate, Address or Other Phone  
7. Well Name and No.  
8. Battery  
9. APN or No.  
10. F&M and Prod. or Exploratory Area  
11. Name of the U.S. State  
12. Name of the U.S. State  
13. Name of the U.S. State

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Lease	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Surrender Report	<input type="checkbox"/> Reoperation
<input type="checkbox"/> Well Completion Report	<input type="checkbox"/> Primary Well
	<input type="checkbox"/> Casing Log
	<input type="checkbox"/> Abandonment of Facility
	<input type="checkbox"/> Change of Plan
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> New Production Permitting
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Completion or Operation
	<input type="checkbox"/> Drilling Well

13. Describe Proposed or Completed Operations (Include well or reservoir details, and give pertinent data, including estimated cost of handling any proposed work, if well is ultimately drilled, give estimated location and measured and true vertical depth for all sections and some previous to the well.)

We are in the process of abandoning and reclaiming this lease at the present time.

14. I hereby certify that the foregoing is true and correct.

Signed Raymond D. Kuebler Title District Manager Date 10/03/95

Witness (Name and Title)  
SIGNED Mike S. Kuebler Title TEAM LEADER Date OCT 31 1996

Witness (Name and Title)  
SIGNED Mike S. Kuebler Title TEAM LEADER Date OCT 31 1996

Form 1040-1 (2-78) (201) is a form for use in connection with the Bureau of Land Management. It is not to be used for any other purpose. It is the property of the Bureau of Land Management and is loaned to you. It is to be returned to the Bureau of Land Management when it is no longer needed.

\*See instruction on Reverse Side

OP



Lease : East Poplar Unit  
Facility: G Battery  
Legal : SE SE Sec. 2, T28N, R51E  
Roosevelt County, Montana

**CONDITIONS OF APPROVAL:**

1. Complete removal of debris such as pieces of wood and pipe.
2. Recontour road bed if required by Surface Owner.



## United States Department of the Interior

### BUREAU OF LAND MANAGEMENT

Miles City District Office  
P. O. Box 940  
Miles City, Montana 59301-0940

IN REPLY REFER TO:

3160

OCT 31 1996

Certified Mail-Return Receipt Requested  
Murphy Exploration & Production Company  
Attn: R. Reede  
P.O. Box 547  
Poplar, Montana 59255

#### WRITTEN ORDER

RE: Lease : ~~East Poplar Unit~~ East Poplar Unit  
Facility: J Battery *Full* P Battery  
Legal : NE SW Sec. 29, T29N, R51E SE NE Sec. 13, T29N, R50E

Dear Mr. Reede:

The above referenced sites were inspected on October 29, 1996 in response to Sundry Notices addressing reclamation of the sites. The inspections showed that clean up and reclamation work at the sites has not been completed. The clean up and reclamation work, including any seeding of the sites and access roads, must be completed by June 1, 1997.

The equipment remaining at the sites for production must be maintained in a safe and orderly manner. The production equipment may need to be fenced to provide protection for livestock and wildlife.

You may request a State Director Review (SDR) of this Written Order under 43 CFR 3165.3. Your request must be filed within 20 business days after receipt of the letter with the BLM Montana State Director, P.O. Box 36800, Billings, Montana 59107. The SDR decision may be appealed to the Office of Hearings and Appeals, Washington, D.C. under 43 CFR 3165.4. Failure to timely request an SDR or file an appeal with IBLA will preclude any further administrative review of this Written Order.

We appreciate your cooperation in this matter. We will approve your Sundry Notices after successful completion of the clean up and reclamation work. These same measures should be taken at all other battery sites which are no longer needed for production. If you have any questions, please contact David Breisch at (406)232-7001.

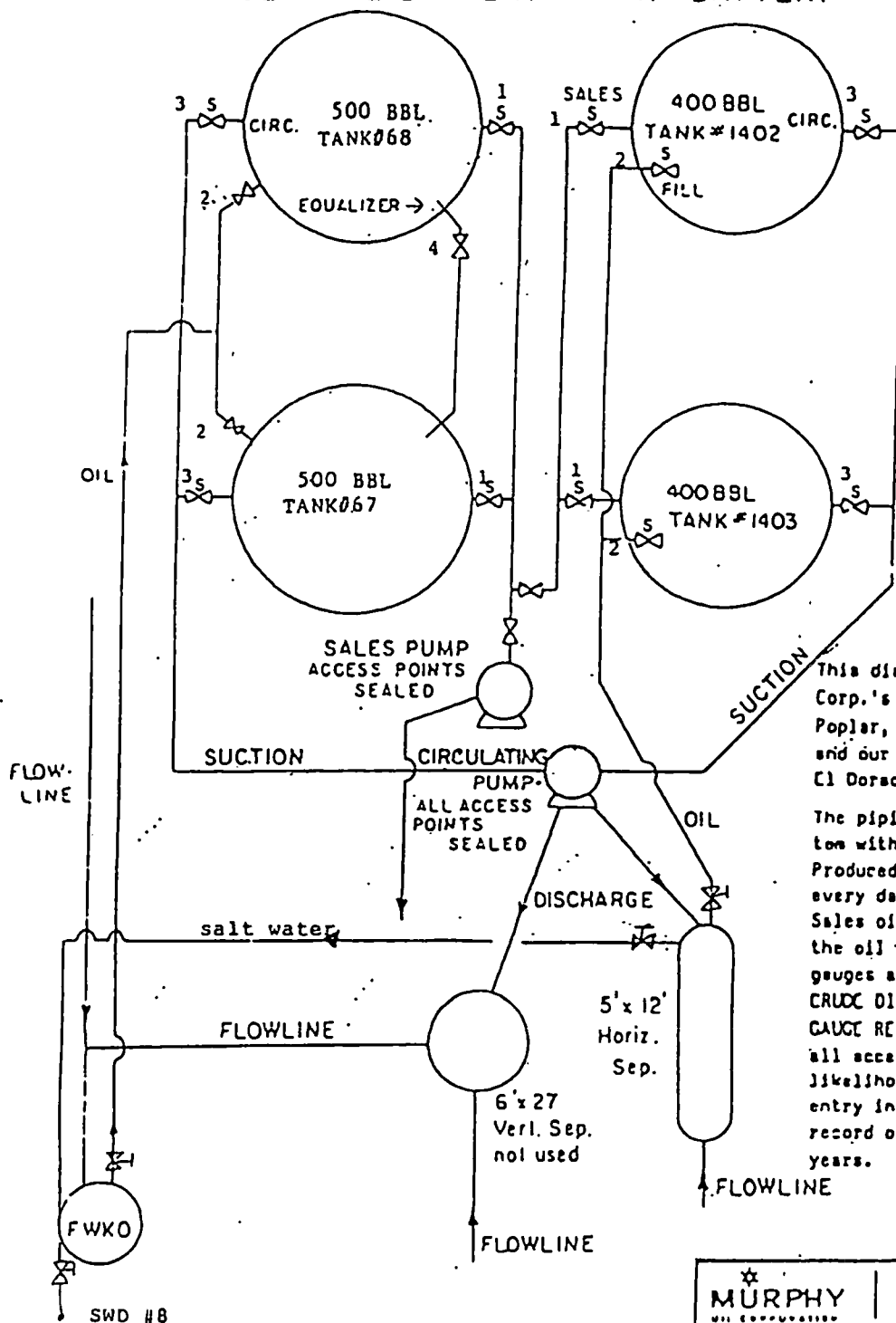
Sincerely,

Team Leader  
Division of Mineral Resources

# SITE FACILITY DIAGRAM

SOUTH CENTRAL BATTERY

"R" BATTERY



This diagram is the subject of Murphy Oil Corp.'s SITE SECURITY PLAN located in our Poplar, Montana District Production Office and our Corporate Headquarters in Cl Dorado, Arkansas.

The piping on this lease is an open system with all points of access sealed. Produced oil is hand gauged and recorded every day on Murphy's 10-DAY GAUGE REPORT. Sales oil is hand gauged before and after the oil is run from a storage tank. These gauges are recorded on the purchaser's CRUDE OIL RUN TICKET and on our 10-DAY GAUGE REPORT. Numbered seals are used at all access points to provide for less likelihood and/or checking of unauthorized entry into our oil system. A complete record of seal usage will be kept for 6 years.

**MURPHY**  
OIL CORPORATION

DOMESTIC PRODUCTION  
ALL DOMAINS, ARKANSAS

SOUTH CENTRAL AND "R" BATTERY  
EAST POPLAR UNIT  
EAST POPLAR FIELD  
ROOSEVELT CO., MONTANA  
NE SE SEC. 10-T28N-R51E

# SITE FACILITY DIAGRAM

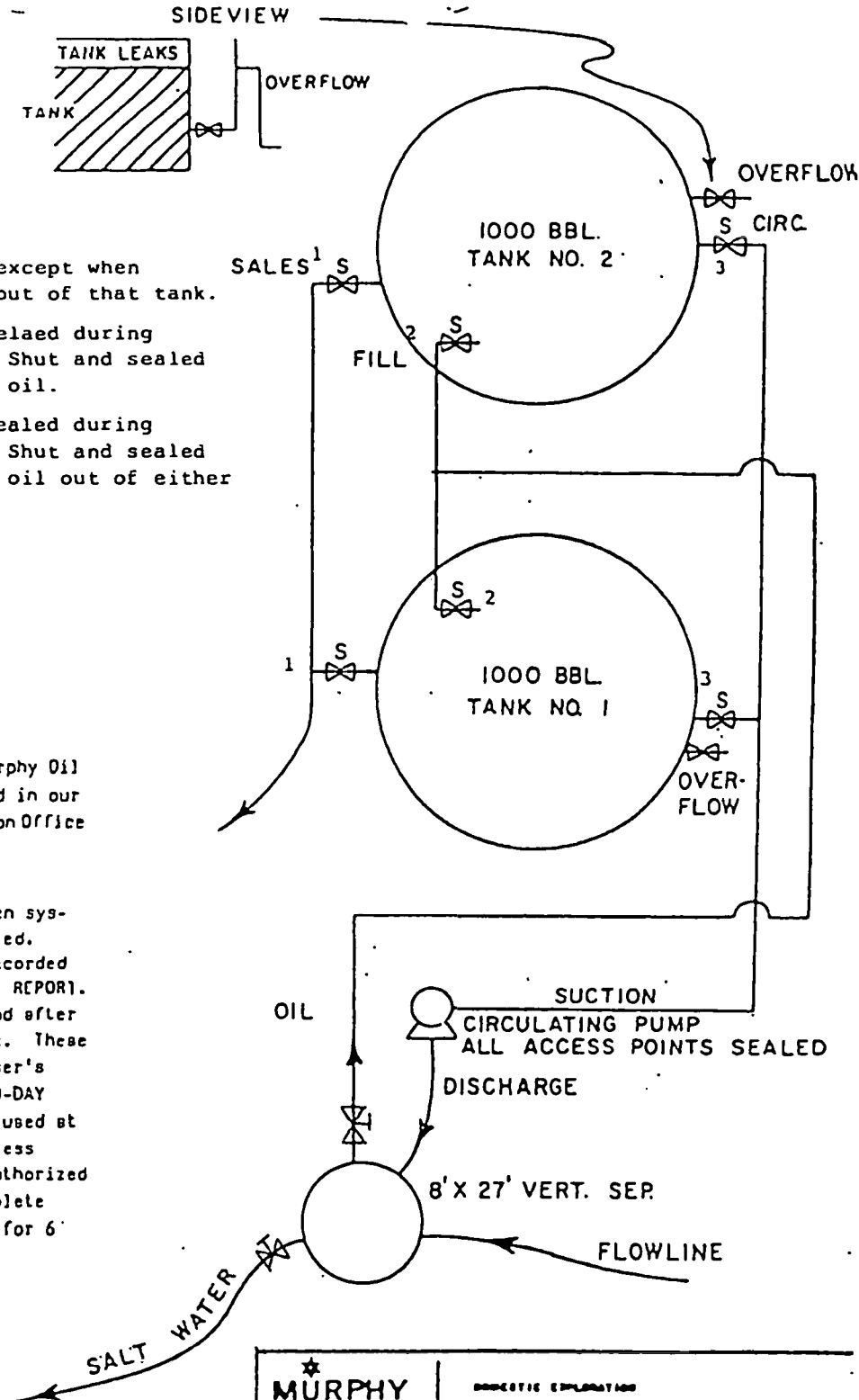
SIDEVIEW



- 1-Oil Sales .. Sealed shut except when selling oil out of that tank.
- 2-Oil Inlet Open and unsealed during production. Shut and sealed when selling oil.
- 3-Circulating Open and unsealed during production. Shut and sealed when selling oil out of either tank.

This diagram is the subject of Murphy Oil Corp.'s SITE SECURITY PLAN located in our Poplar, Montana District Production Office and our Corporate Headquarters in [ ] Dorado, Arkansas.

The piping on this lease is an open system with all points of access sealed. Produced oil is hand gauged and recorded every day on Murphy's 10-DAY GAUGE REPORT. Sales oil is hand gauged before and after the oil is run from a storage tank. These gauges are recorded on the purchaser's CRUDE OIL RUN TICKET and on our 10-DAY GAUGE REPORT. Numbered seals are used at all access points to provide for less likelihood and/or checking of unauthorized entry into our oil system. A complete record of seal usage will be kept for 6 years.



**MURPHY**  
OIL CORPORATION

DOMESTIC EXPLORATION  
EL DORADO, ARKANSAS

"A" BATTERY  
EAST POPLAR UNIT  
EAST POPLAR FIELD  
ROOSEVELT CO., MONTANA  
SE NE SEC. 2-T28N-R51E

# SITE FACILITY DIAGRAM

MURPHY OIL USA, INC.  
SOUTH CENTRAL & "R" BTRY  
EAST POPLAR UNIT  
NE SE Section 10, T28N, R51E  
ROOSEVELT COUNTY, MONTANA

SOUTH CENTRAL BATTERY

"R" BATTERY

1 - Oil Sales Sealed shut except when selling oil out of that tank.

2 - Oil Inlet Open and unsealed during production Shut & sealed when selling oil.

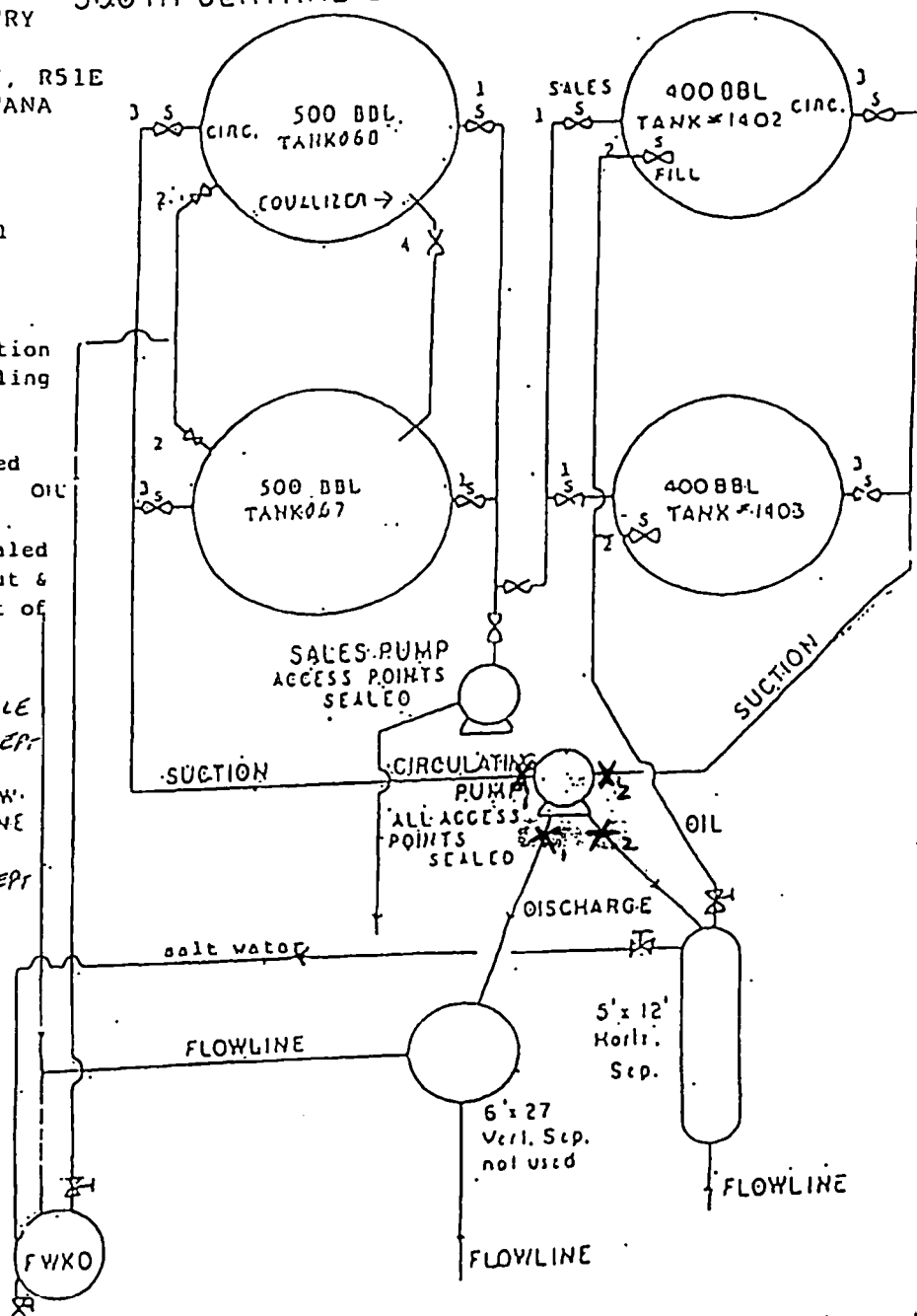
3 - Recycle Closed & sealed except when recycling. OIL

4 - Equalizer Open & unsealed during production. Shut & sealed when selling out of either tank.

X1 - INLET & OUTLET AT RECYCLE PUMP SEALED CLOSED EXCEPT WHEN RECYCLING

X2 - INLET & OUTLET AT RECYCLE PUMP SEALED CLOSED EXCEPT WHEN RECYCLING.

FLOWLINE



74.8' effective head at 'I' battery  
 -28.7' friction head loss from 'I' batt to 'I' batt junction at 1420 BPD  
 46.1' total head at 'I' battery junction  
 -42.0' difference in elevation  
 4.1' net effective head at 'I' battery junction

'I' Junction W6" G.E./M 2014

12'

6750' 6" CL 100 1810 BPD

4.1'

46.1' effective head  
from 'I' battery

G.E./M 2032

'I' Battery Junction

'P' Battery Co. Elev. 2201'

Effective head  
171.8'

w/18' water log + 10psi breaker  
pressure, using .18  $\frac{\text{psi}}{\text{ft}}$  gradient

6800' 3" G/100

QEP 2310 BPD

'L' + 'P' Junction 4/6"

Gr. Elev. 2074'

'L' Battery Gr. Elev. 2108'

Effective head  
172.8'

w/19' water leg & 10 psi Laster  
pressure, using .18  $\frac{\text{cst}}{\text{ft}}$  gradient

2500' 3" CI 100

Cap. 2575 BPD

'L'P' Junction  
w/6"

Gr. Elev. 2074



2' x 2' junction    6. Feb 2024



22'



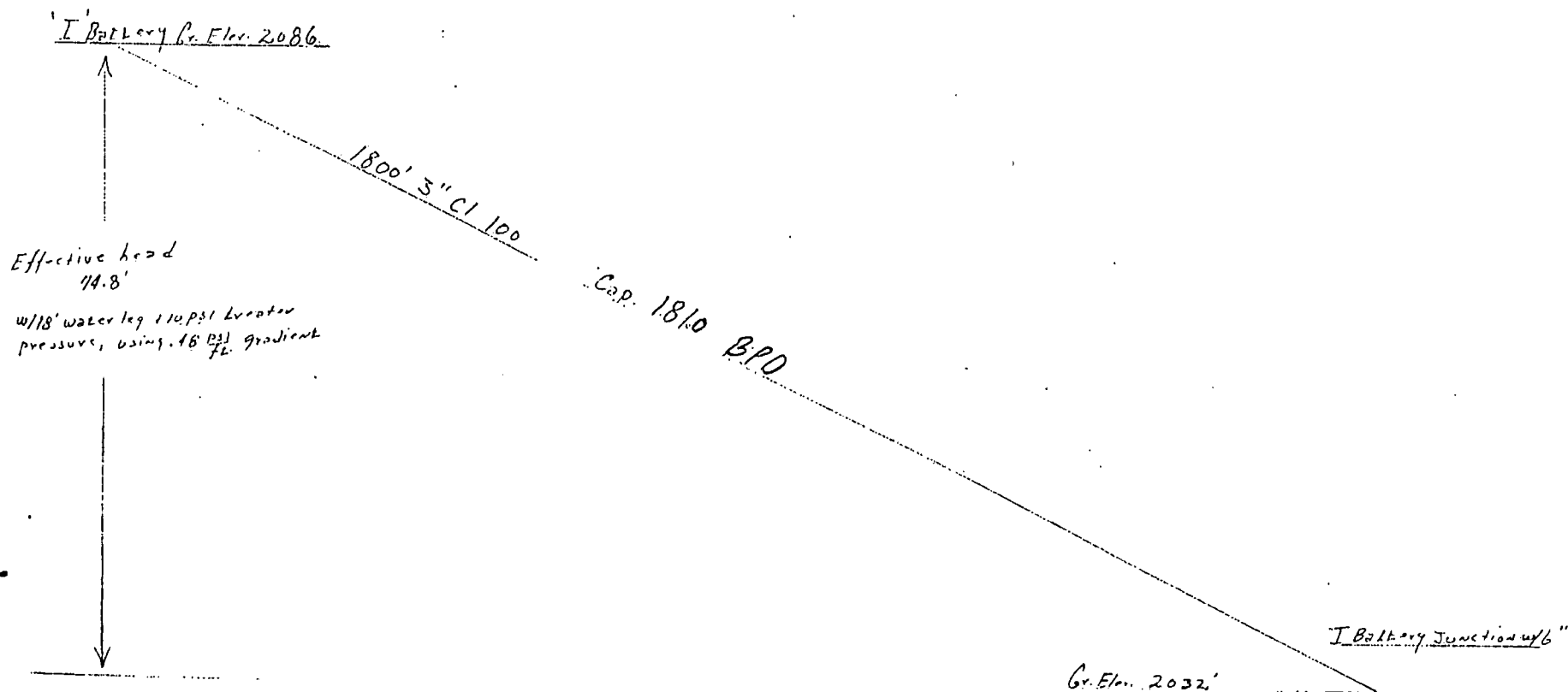
1300' 6" CI 100

cap. 6600 BPD

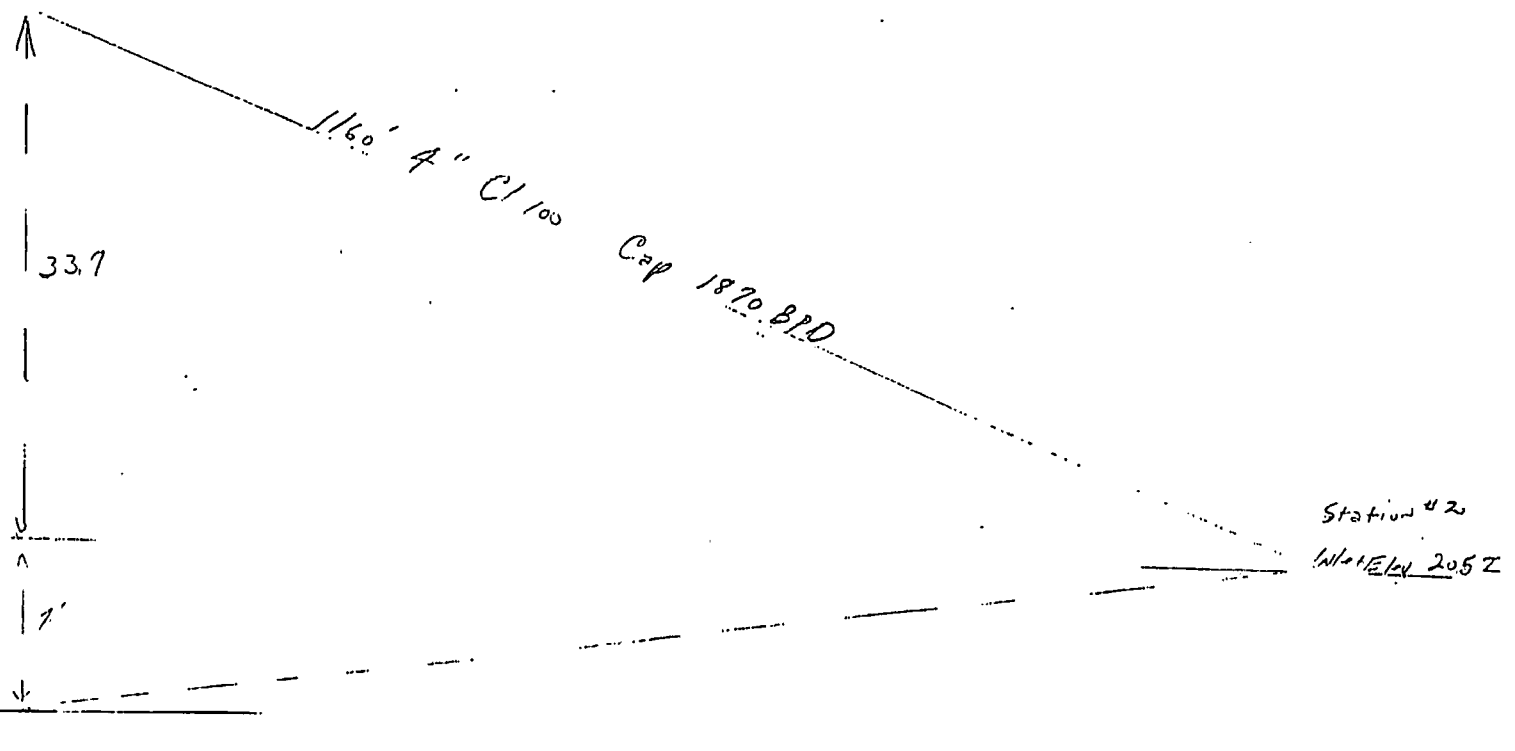
14th Feb 2024

Station 42

Note: The capacity of this line to Station #42 is 1810 BPD because head loss due to friction and elevation in the 6" line to LVP battery junction. Assuming zero pressure at I battery junction the capacity is 2960 BPD.



Water log	18'
Driveway pressure 10 psi x $\frac{2.31}{ft}$	$\frac{23.1}{40.7}'$
difference in elevation	$\frac{7}{33.7}'$
Net effective head at driveway	



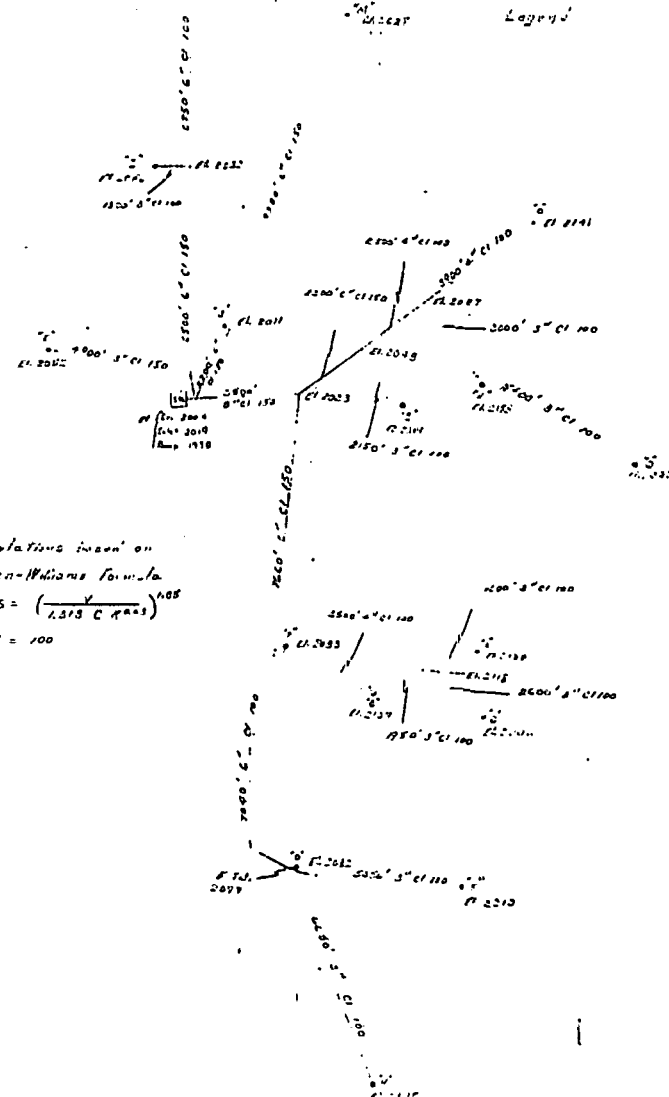
7

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East Poplar Unit  
Salt Water Gathering System

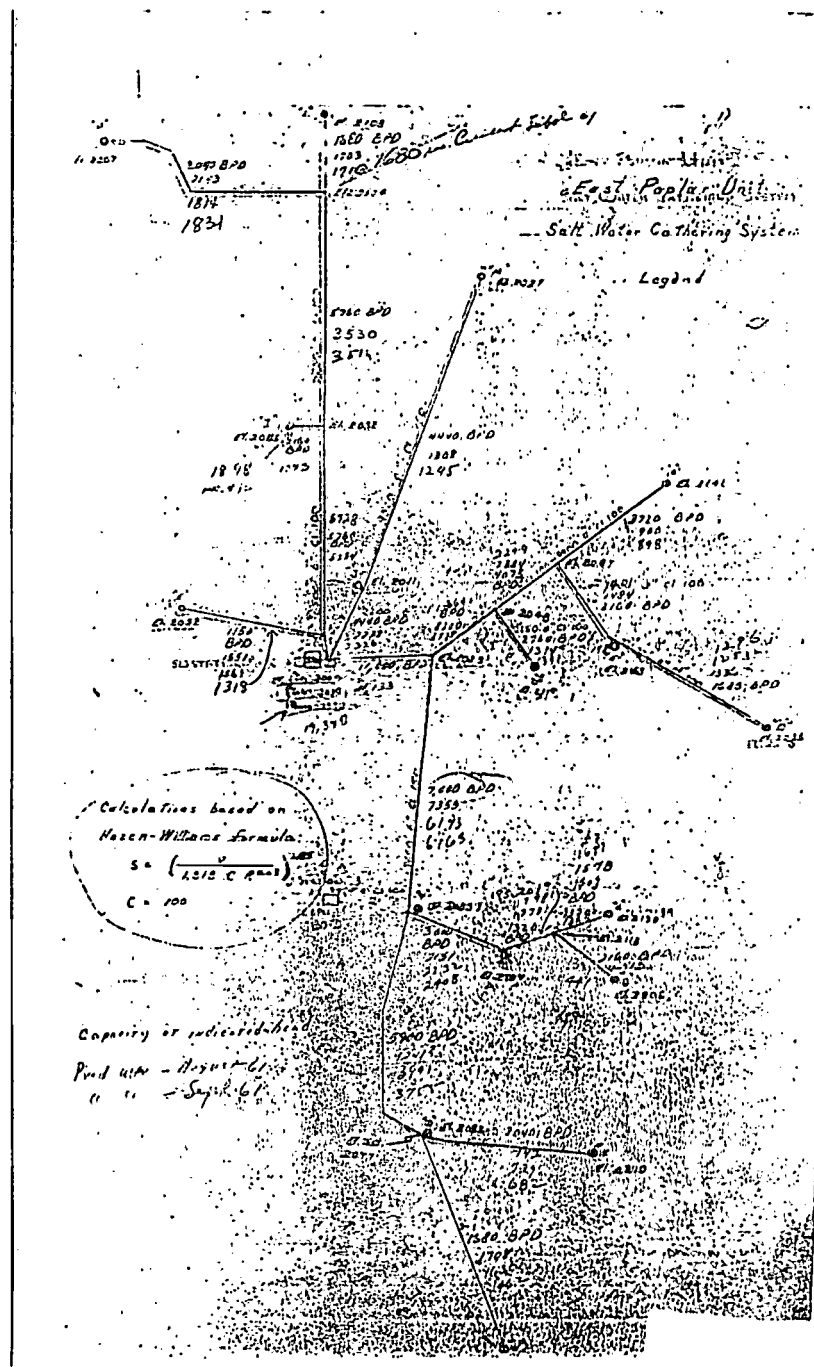
• 21 •  
21-625

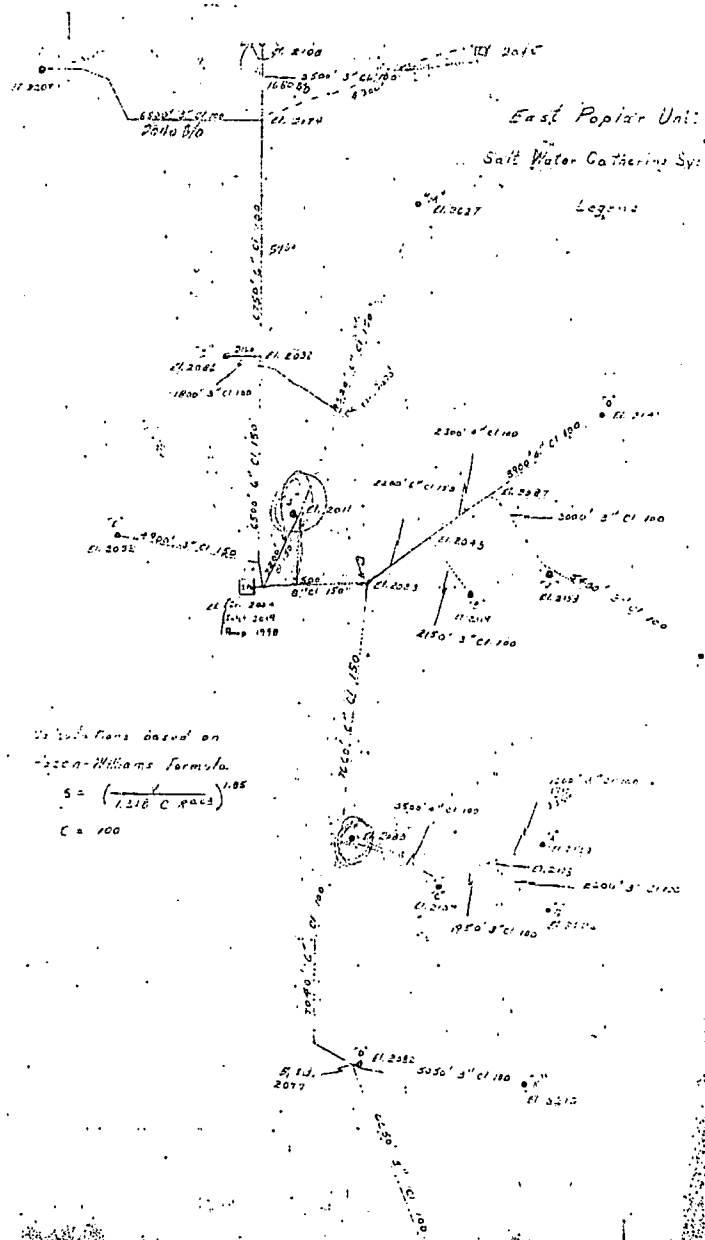
Задача.

Calculations based on  
Hazen-Williams Formula

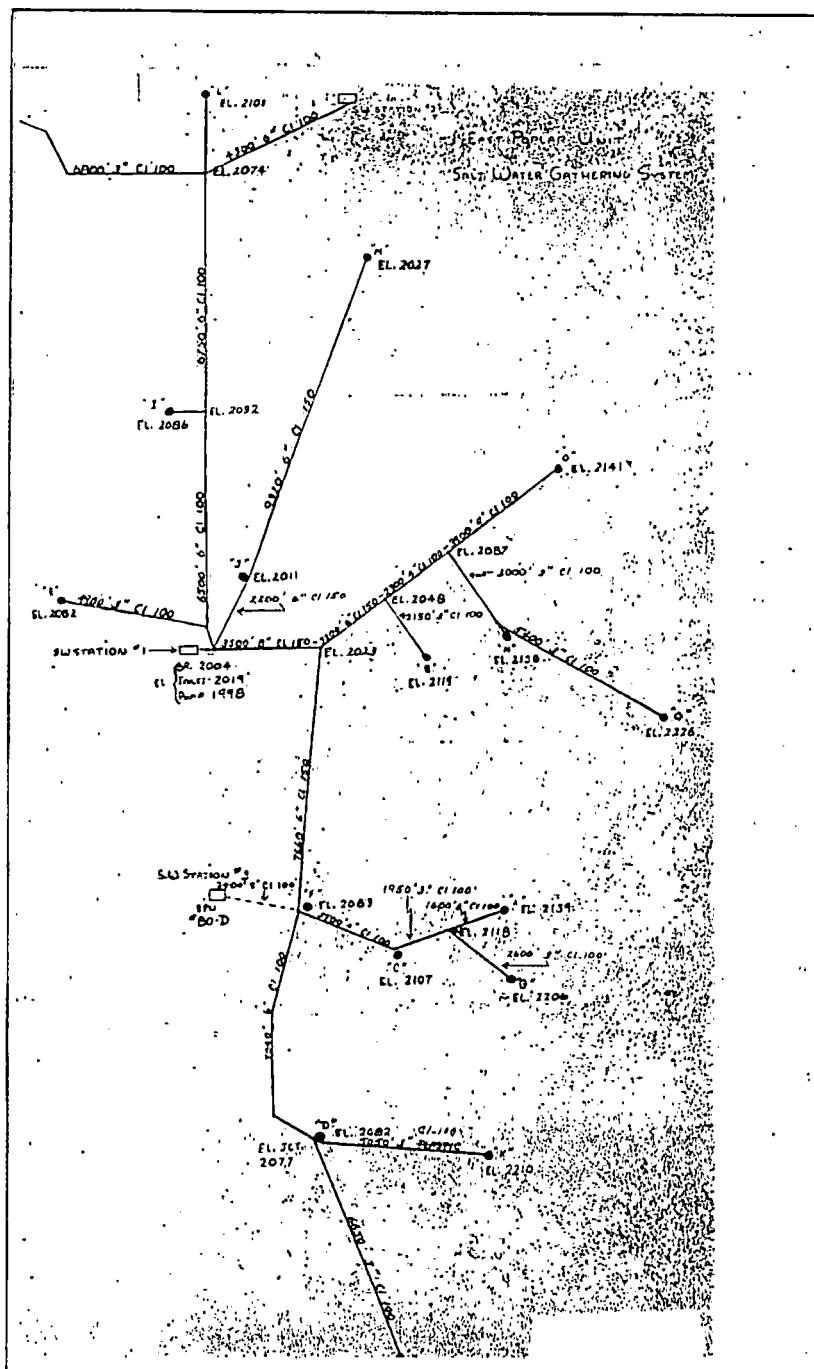
$$S = \left( \frac{V}{1.513 \text{ cm}^3/\text{mol}} \right)^{108}$$

$$C = 100$$

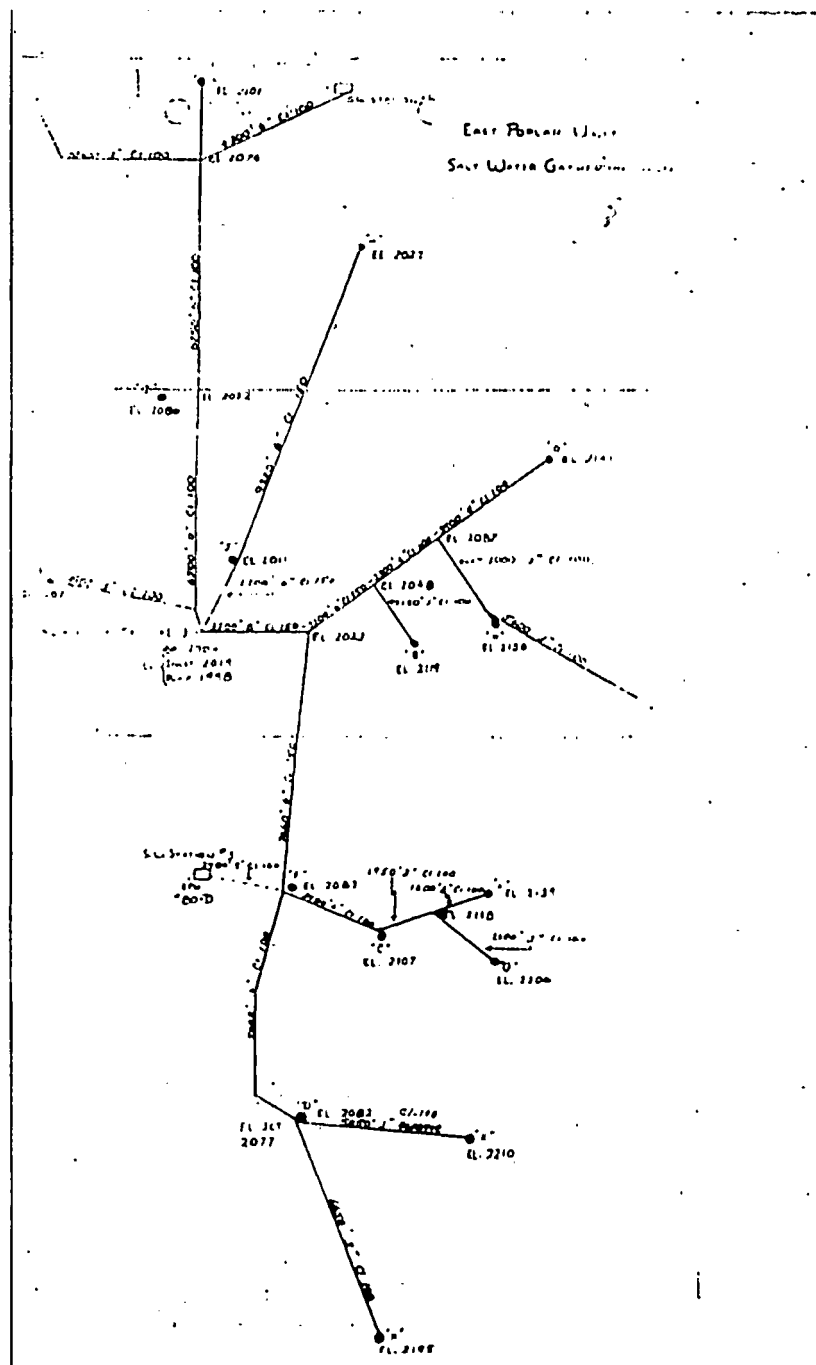


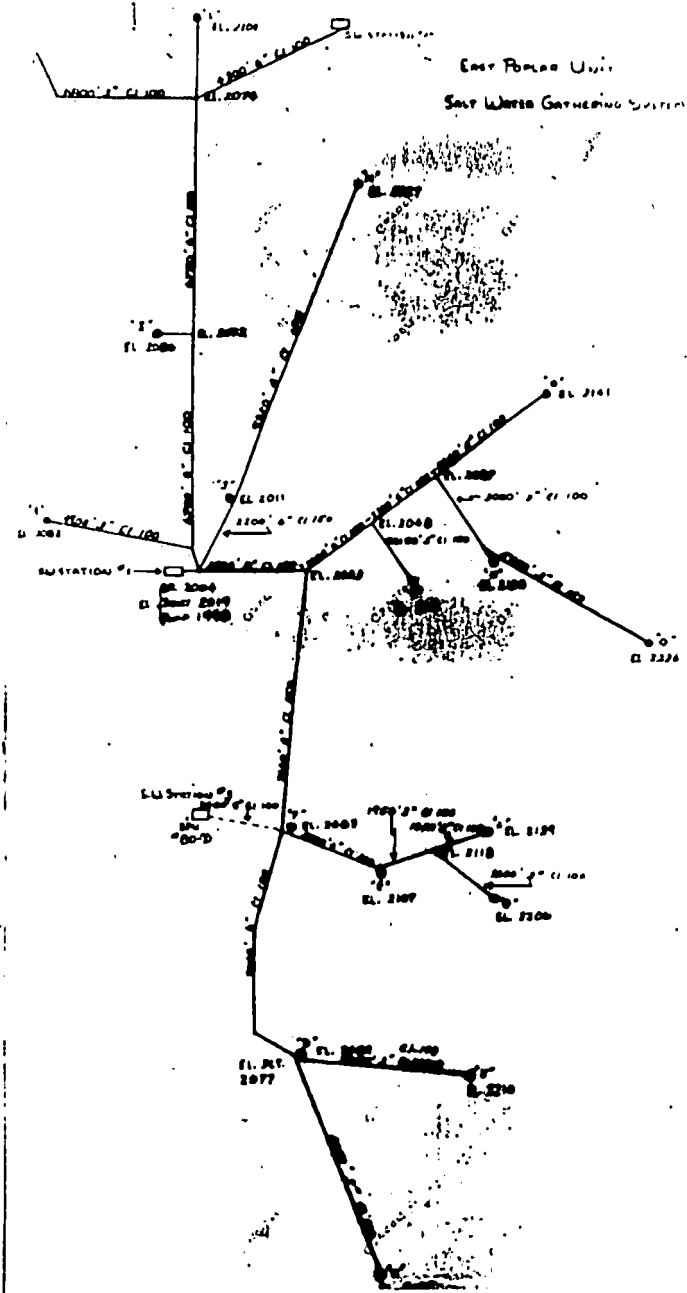


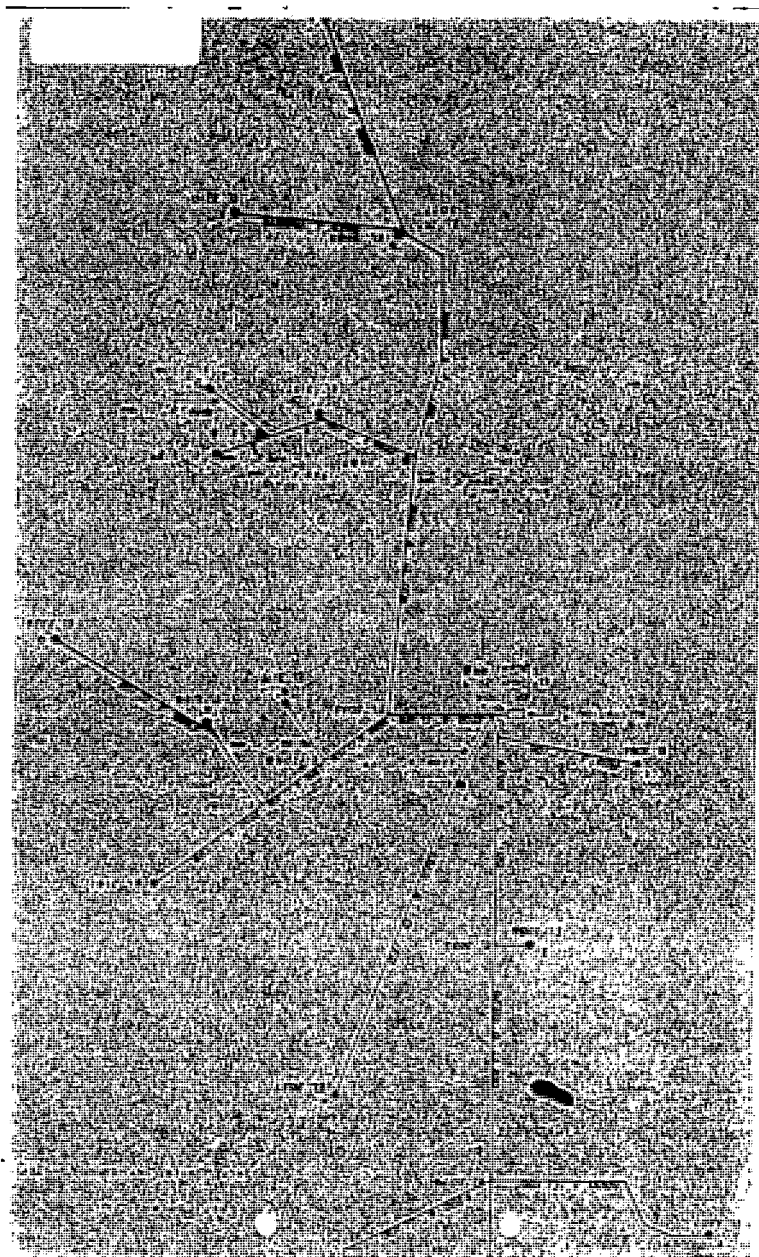


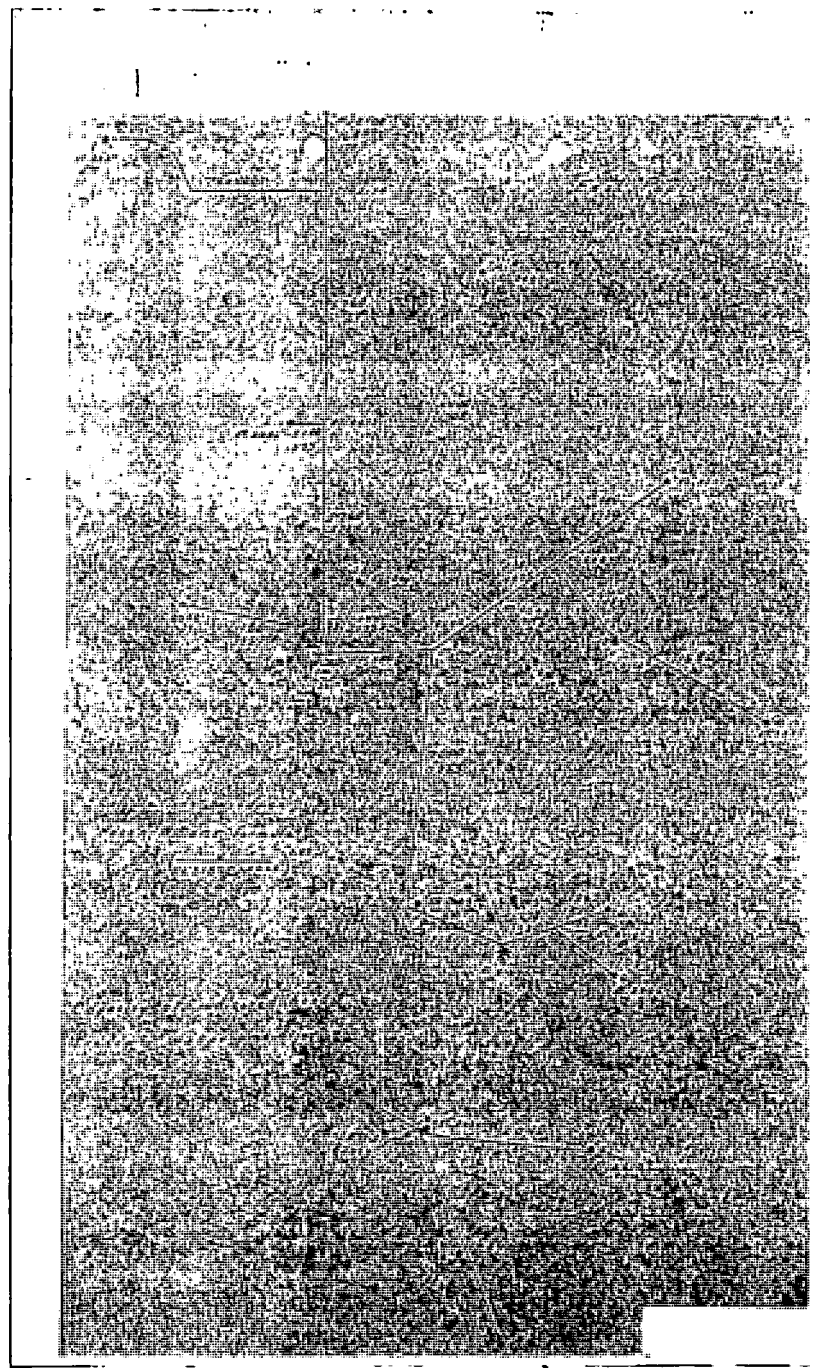


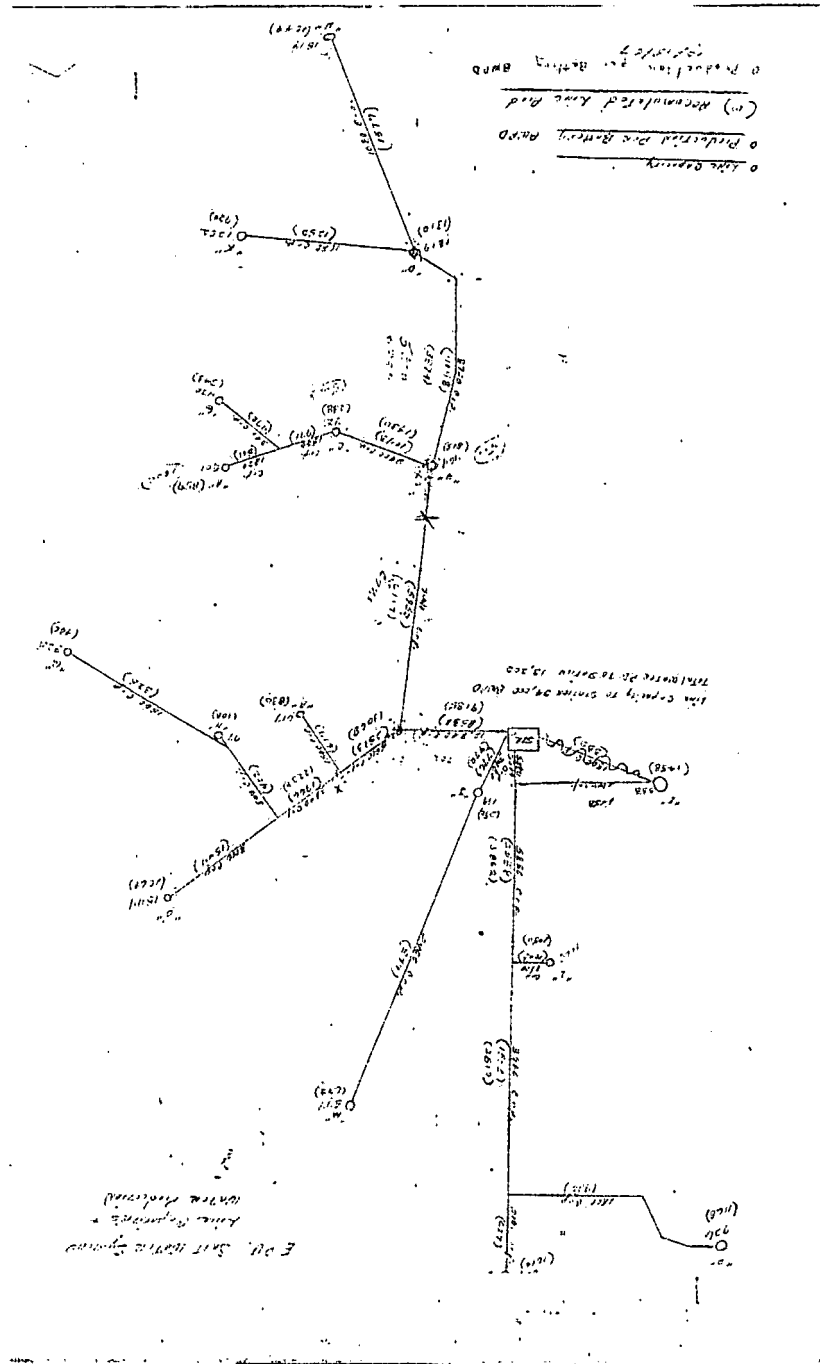








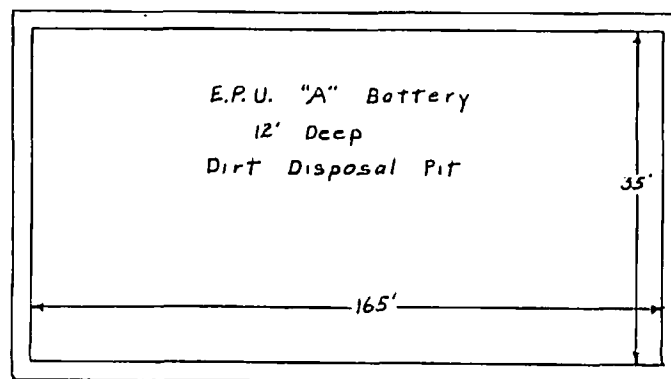








-  1000 bbls
-  Tanks



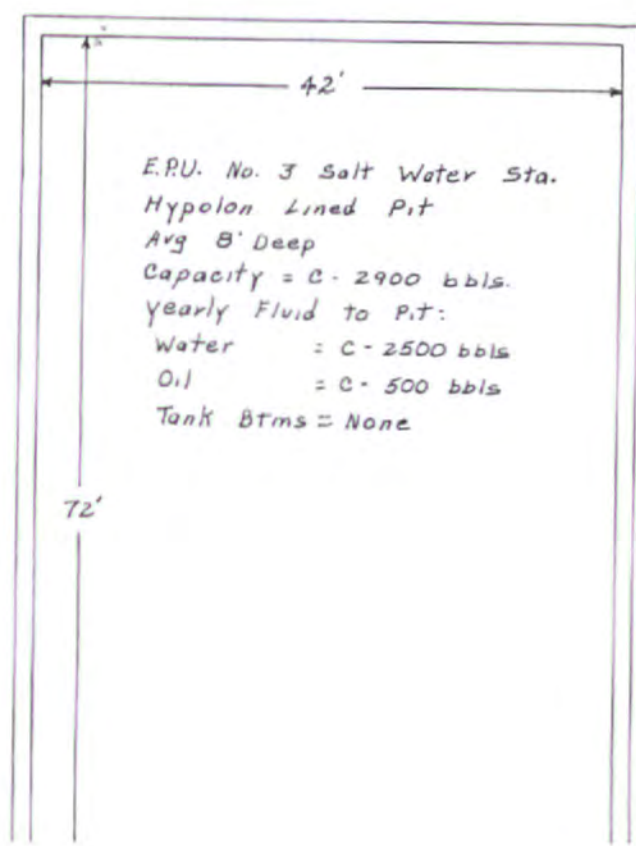
Total Capacity = c - 12,350 bbls



○ E.P.U. No. 80-D



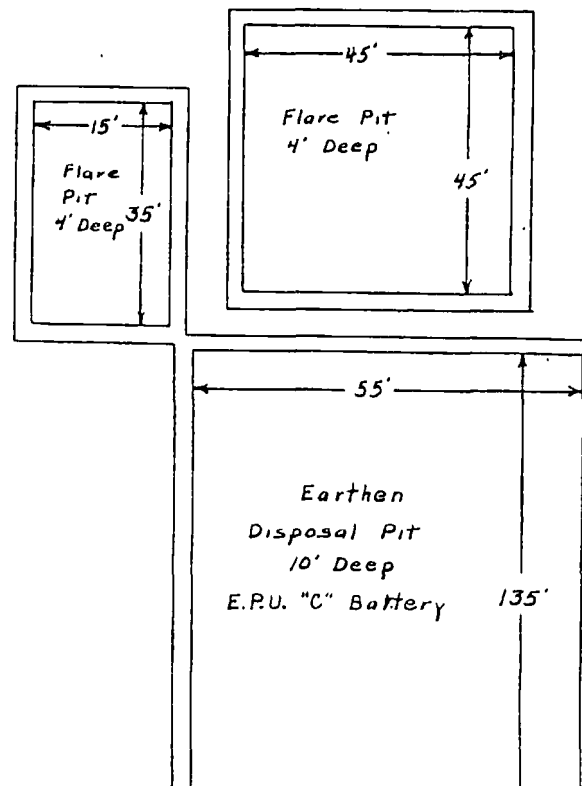
500 bbl Tank (wood)





○ 1000 bbl  
○ Tanks

○ Treater

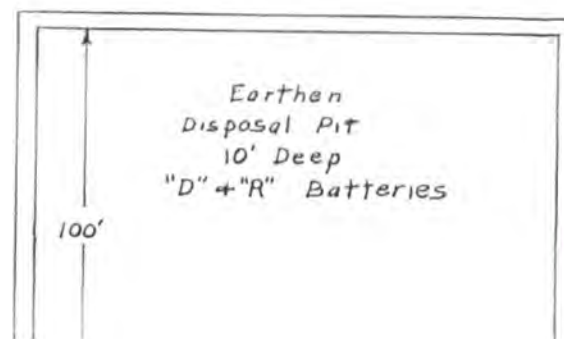


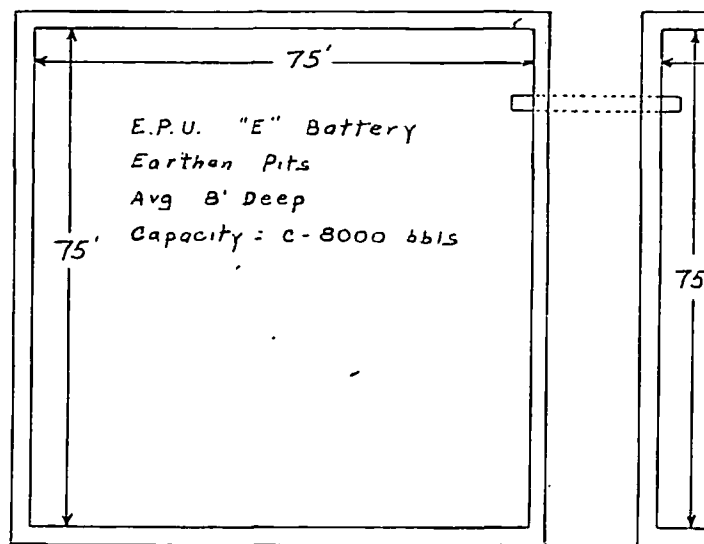




○ "D" Battery  
□ "R" Battery

○ ○ 1000 bbl.  
○ ○ 400 bbl.





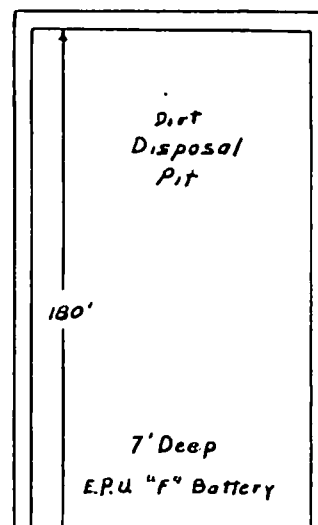
Yearly Fluid To Pits  
Water : C- 1300 bbls.  
Oil = Nil  
Tank Btms = C- 130 bbls.

1000

bbl

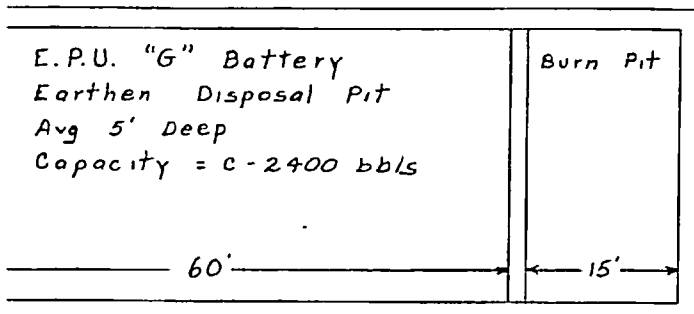
Tenk

Tn



Lease Road

25'

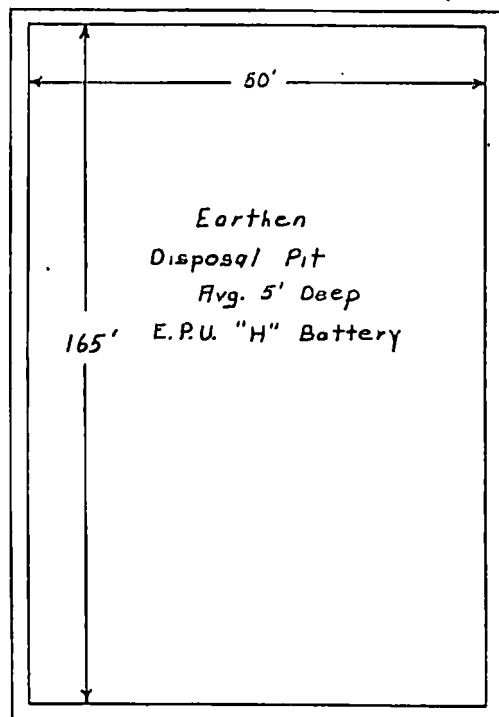


yearly Fluid to Pit:  
Water = c-100 bbls  
Oil = Nil  
Tank Btms = c-100 bbls

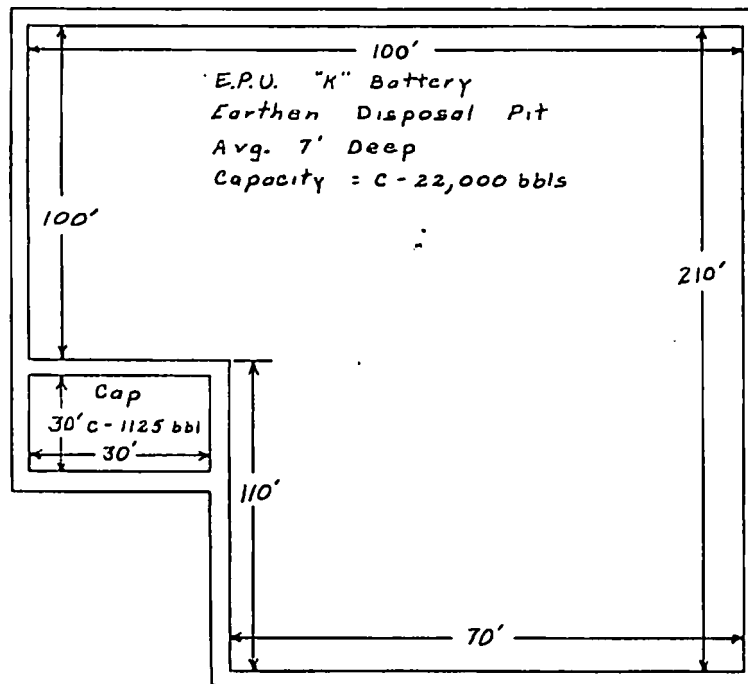
○○  
500 bbl Tanks



N.T.S. 10-26-71 WLB

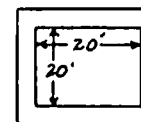


Total Capacity = c-7350 bbls.  
Yearly Fluid to Pit:  
Water = c- 1350 bbls.  
Oil = Nil  
Tank Btms. = c- 100 bbls



yearly Fluid to Pit:

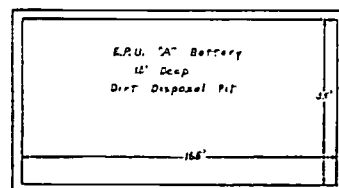
Water = C - 500 bbl  
Oil = Nil  
Tank Btms = C - 130 bbls



Burn Pit



○ 1000 gals  
○ Tanks



Total Capacity : C - 16,350 gals  
yearly fluid to pit:  
Water : C - 997 lbs  
Oil : N/A  
Tank Btm : C - 130 gals

○ Tanker

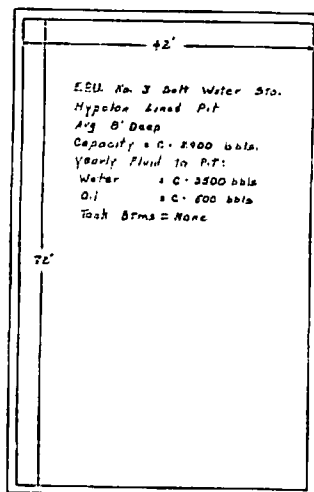
NTS. 1-20-71 *WLD*



□ E.P. in 80-0



300 bbl Tank (wood)



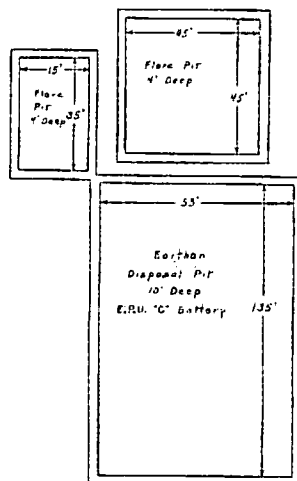
N.T.S. 11-4-71 *W.H.B.*





○ 1000 gals  
○ Tanks

○ Transfer



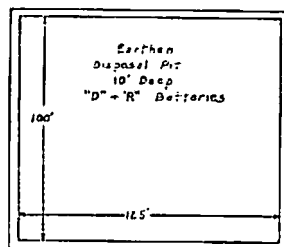
Total Capacity = 6 - 12,200 gals.  
Yearly Fluid to P.I.:  
Water = 685 gals.  
Oil = 111  
Tune BTMA = 120 gals.

N.T.S. 9-20-71 MCB



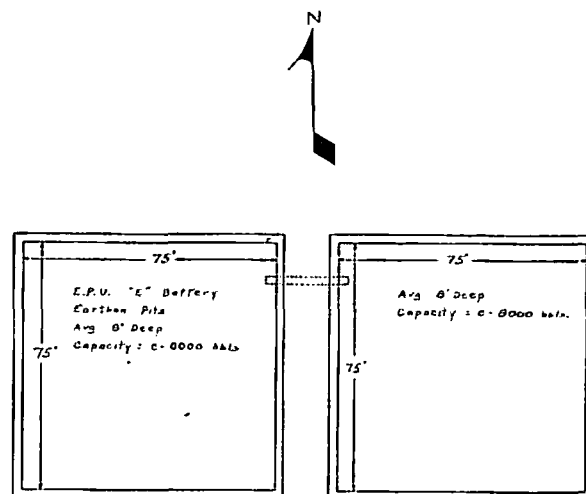
○ "D" Battery  
□ "R" Battery

○ ○ 1000 bbl.  
○ ○ 400 bbl.

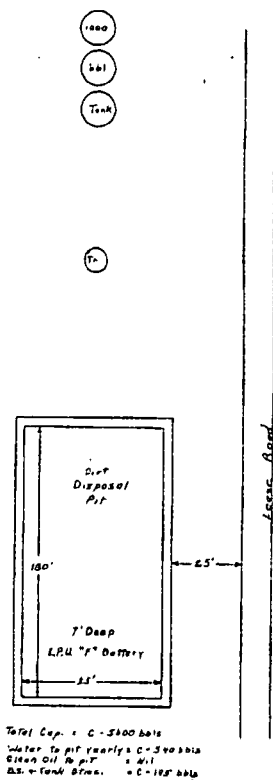


Total Capacity = 6 - 25,000 bbls.  
Yearly Fluid to Pit:  
Water 20 - 100 gals.  
Oil 2 K.1  
Tank Bums: 5 - 200 bbls.

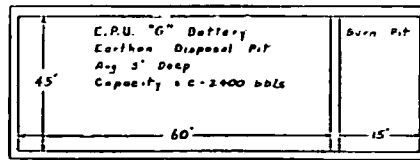
N.T.S. 9-10-71 WJG



yearly fluid to pits  
 water 1 c - 1300 bbls.  
 oil 1 c - 110  
 Tank B: ma 1 c - 130 bbls.



9-28-77  
 H.T.S. WLB

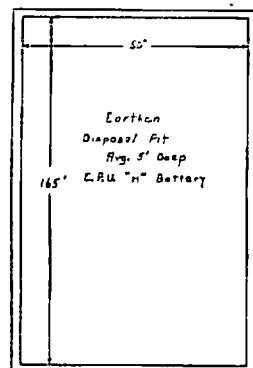


Yearly Fluid in Pit:  
 Water : approx 2000 bbls  
 Oil : Nil  
 Tank Oil : approx 100 bbls

○○  
 500 bbl Tanks



H.T.S. 10-26-71 *W.H.S.*

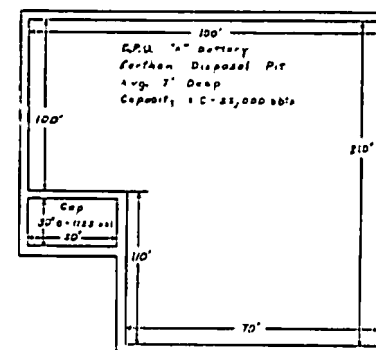


Total Capacity = C-1350 mls.  
 Yearly Fluid To Pitt:  
 Water = C-1350 mls.  
 Oil = Nil  
 Tank Storage = C-100 mls.

○○ 500000 Tons

○ Tons

N.T.S. 9-20-71 m38.



E.P.U. "A" Battery  
Leakage Disposal Pit  
Avg. 7' Deep  
Capacity = C - 25,000 bbls

Yearly fluid to pit:  
Water = 0 - 500 bbl  
Oil = Nil  
Total Brms = C - 100 bbls



Burn Pit

1000 bbl Tanks

**Information concerning tanks located in the South end of the East Poplar  
Unit**

**S.W. Station No. 8-D**

**S.W. Station No. 80-D**

**Huber Tank Battery**

**T Battery**

**R Battery**

**K battery**

**H Battery**

**G Battery**

**F Battery**

**South Central Battery (D Battery)**

**C Battery**

**A Battery**



**LOCATION:**

**C Battery NW SW Section 2, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTRUCTION:**

<b>Tank No. 11</b>	<b>1000 Barrel, Bolted</b>	<b>July 1952-June 1985</b>
<b>Tank No. 12</b>	<b>1000 Barrel, Bolted</b>	<b>July 1952-October 1984</b>
<b>Tank No. 26</b>	<b>500 Barrel, Bolted</b>	<b>June, 1985-Present</b>
<b>Tank No. 71</b>	<b>300 Barrel, Welded</b>	<b>November 1984-Present</b>

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

**PITS:** **Dirt Pit**  
**DATE OF USED:** **1952-1975?**  
**WHEN COVERED:** **1975?**  
**TYPE OF FLUIDS IN PIT:** **Produced Fluids**

**LOCATION:**

**EPU Salt Water Station 8-D  
NW SE Section 10, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTRUCTION:**

**322 Barrel, Fiberglass Tank November 1972-August 1981  
400 Barrel, Welded August 1981-Present Time**

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

<b>PITS:</b>	<b>Lined Pit October 1973 August 1989 New Liner August 1998-Present</b>
<b>DATE OF USED:</b>	<b>October 1973 - Present</b>
<b>WHEN COVERED:</b>	
<b>TYPE OF FLUIDS IN PIT:</b>	<b>Produced Fluids</b>

**LOCATION:**

**EPU Salt Water Station No. 80-D**

**SW NW Section 3, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTRUCTION:**

**107 Barrel Welded December 1963-February 1970**

**500 barrel Redwood February 1970-Present**

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

**PITS:**

**Lined October 1971-August 1997 New Liner  
August 1997-Present**

**DATE OF USED:**

**October 1971-Present**

**WHEN COVERED:**

**TYPE OF FLUIDS IN PIT:**

**Produced Fluids**

**LOCATION:**

**Huber Tank Battery  
County, MT**

**NW NE Section 10, T28N, R51E, Roosevelt**

**TANK SIZE AND CONSTRUCTION:**

<b>Tank No. 125</b>	<b>325 Barrel, Bolted ? - November 1991</b>
<b>Tank No. 126</b>	<b>325 Barrel, Bolted ? - February 1996</b>
<b>Tank No. 109</b>	<b>500 Barrel, Bolted ? - Present</b>
<b>Tank No. 110</b>	<b>500 Barrel, Bolted ? - Present</b>

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**Filed Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

**PITS:**

**DATE OF USED:**

**WHEN COVERED:**

**TYPE OF FLUIDS IN PIT:**

**Lined**

**? - 1997**

**1997**

**Produced Fluids**

**LOCATION:**

**T Battery SE SE Section 2, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTRUCTION:**

**Tank No. 963-1 300 Barrel, Welded May 1997-Present**  
**Tank No. 963-2 300 Barrel, Welded May 1997-Present**

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

**PITS: None**

**DATE OF USED:**

**WHEN COVERED:**

**TYPE OF FLUIDS IN PIT:**

**LOCATION:**

**R Battery NE SE Section 10, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTRUCTION:**

<b>Tank No. 1402</b>	<b>400 Barrel, Welded August 1969-June 1998</b>
<b>Tank No. 1403</b>	<b>400 Barrel, Welded August 1969-July 1998</b>
<b>Tank No. 970-1</b>	<b>400 Barrel Welded July 1998 - Present</b>
<b>Tank No. 970-2</b>	<b>400 Barrel, Welded August 1998-Present</b>

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

<b>PITS:</b>	<b>Dirt Pit</b>
<b>DATE OF USED:</b>	<b>August 1969-October 1973</b>
<b>WHEN COVERED:</b>	<b>1974</b>
<b>TYPE OF FLUIDS IN PIT:</b>	<b>Produced Fluids</b>
<b>Lined Pit October 1973-August 1998 New Liner August 1998 - Present</b>	

**LOCATION:**

**K Battery NW SE Section 11, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTRUCTION:**

<b>Tank No. 13</b>	<b>1000 Barrel, Bolted July 1953-October 1979</b>
<b>Tank No. 14</b>	<b>1000 Barrel, Bolted July 1953-October 1979</b>

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

<b>PITS:</b>	<b>Dirt Pit</b>
<b>DATE OF USED:</b>	<b>1953-1975?</b>
<b>WHEN COVERED:</b>	<b>1975?</b>
<b>TYPE OF FLUIDS IN PIT:</b>	<b>Produced Fluids</b>

**LOCATION:**

**H Battery SW SW Section 14, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTRUCTION:**

**Tank No. 27 1000 Barrel, Bolted May 1953-September 1968**

**Tank No. 28 1000 Barrel, Bolted May 1953-September 1968**

**Tank No. 61 300 Barrel, Welded September 1968-October 1976**

**Tank No. 62 300 Barrel, Welded September 1968-October 1976**

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

<b>PITS:</b>	<b>Dirt Pit</b>
<b>DATE OF USED:</b>	<b>1953-1976?</b>
<b>WHEN COVERED:</b>	<b>1976?</b>
<b>TYPE OF FLUIDS IN PIT: Produced Fluids</b>	



**LOCATION:**

**G Battery SE SE Section 2, T28N, R51E**

**TANK SIZE AND CONSTRUCTION:**

<b>Tank No. 5</b>	<b>500 Barrel, Bolted March 1953-July 1984</b>
<b>Tank No. 6</b>	<b>500 Barrel, Bolted March 1953-July 1984</b>
<b>Tank No. 72</b>	<b>300 Barrel, Welded August 1989-December 1989</b>

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

<b>PITS:</b>	<b>Dirt Pit</b>
<b>DATE OF USED:</b>	<b>1953-1975?</b>
<b>WHEN COVERED:</b>	<b>1975?</b>
<b>TYPE OF FLUIDS IN PIT:</b>	<b>Produced Fluids</b>

**LOCATION:**

**F Battery SW NE Section 3, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTUCTION:**

<b>Tank No. 23</b>	<b>1000 Barrel, Bolted December 1952-Present Time</b>
<b>Tank No. 24</b>	<b>1000 Barrel, Bolted December 1952-February 1977</b>
<b>Tank No. 52</b>	<b>1000 Barrel, Bolted December 1952-November 1977</b>

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

<b>PITS:</b>	<b>Dirt Pit</b>
<b>DATE OF USED:</b>	<b>1952-1975?</b>
<b>WHEN COVERED:</b>	<b>1975?</b>
<b>TYPE OF FLUIDS IN PIT:</b>	<b>Produced Fluids</b>

**LOCATION:**

**South Central Battery (D Battery)  
Roosevelt County, MT**

**NE SE Section 10, T28N, R51E,**

**TANK SIZE AND CONSTRUCTION:**

<b>Tank No. 15</b>	<b>1000 Barrel, Bolted</b>	<b>August 1952-June 1984</b>
<b>Tank No. 16</b>	<b>1000 Barrel, Bolted</b>	<b>August 1952-June 1984</b>
<b>Tank No. 67</b>	<b>500 Barrel, Welded</b>	<b>June 1984-October 1998</b>
<b>Tank No. 68</b>	<b>500 Barrel, Welded</b>	<b>June 1984-September 1998</b>
<b>Tank No. 971-1</b>	<b>400 Barrel, Welded</b>	<b>October 1998-Present</b>
<b>Tank No. 971-2</b>	<b>400 Barrel, Welded</b>	<b>October 1998-Present</b>

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

**PITS:**

**Dirt Pit**

**DATE OF USED:**

**1952-October 1973**

**WHEN COVERED:**

**May 1974**

**TYPE OF FLUIDS IN PIT:**

**Produced Fluids**

**Lined Pit : October 1973 – August 1998 New Liner August 1998 Present**

**LOCATION:**

**A Battery SW NE Section 2, T28N, R51E, Roosevelt County, MT**

**TANK SIZE AND CONSTRUCTION:**

**2 1000 Barrel, Bolted Tanks March 1952-November 1944.**

**INFORMATION ON LEAKING TANKS AND SPILL EVENTS:**

**File Enclosed**

**LOCATION OF ALL PIPELINES:**

**Map Enclosed**

<b>PITS:</b>	<b>Dirt Pits</b>
<b>DATE OF USE:</b>	<b>1952-1975?</b>
<b>WHEN COVERED</b>	<b>1975?</b>
<b>TYPE OF FLUIDS IN PIT: Produced Fluid</b>	

A Battery:

The following wells originally went to this battery.

1  
3  
16  
76  
85  
99

1 and 85 are still producing into A Battery

16 was changed to B Battery November 1, 1962

B Battery:

The following wells originally went to this battery

4  
28  
29  
86  
103

16 was changed to this battery November 1, 1962

This battery was turned to North Central Battery 9/21/78

C Battery:

The following wells originally went to this battery

5  
18

These wells still produce into C Battery

D Battery:

The following wells originally went to this battery.

6  
7  
8  
9  
11  
15  
67

7 was changed to R Battery June 19, 1969

15 was changed to R Battery June 19, 1969 and back to D Battery November 1, 1969.

D Battery became South Central Battery September 15, 1976

E Battery:

The following wells originally went to this battery.

10  
31  
69  
70  
77  
102

This battery was turned to North Central Battery February 12, 1976

F. Battery:

The following wells originally went to this battery

12  
14  
39  
45  
80

This battery was turned to South Central Battery 9/15/1976

G Battery:

The following well originally went to this battery

17

H Battery:

The following wells originally went to this battery

20  
22  
26  
32  
55  
74  
101  
104

This battery was turned to K Battery 6/1975 and then turned back to H battery May 29, 1976.

This battery was turned to South Central on September 19, 1976

I Battery:

The following wells originally went to this battery

19  
21  
27  
56  
84  
92  
93  
105  
107

This battery was turned to North Central Battery 4/10/1976

K Battery:

The following wells originally went to this battery

24  
68  
100

H Battery was turned into this battery June, 1975      Turned back to H. Btry May  
This battery was turned to South Central 9/15/1976      29, 1976

L Battery:

The following wells originally went to this battery

30  
33  
34  
40  
58  
73  
94

This battery was turned to North Central 10/20/1976

M Battery:

The following wells originally went to this battery

38  
49  
50  
53  
90  
91  
96  
98

62 was turned to M Battery 8/12/1965

96 was turned to J Battery 5/12/73

This battery was turned to North Central Battery 10/21/1976

N Battery:

The following well originally went to this battery

42

Well is still producing into battery.



J Battery:

The following wells were originally produced into this battery

25  
36  
60  
78  
97  
106  
110

These wells were turned to North Central Battery 10/12/1976

No. 60 was not included

No. 96 was turned to this battery 5/12/73

In 1980 the following wells went to J Battery for number of days noted. Otherwise if they were produced they went into North Central Battery

May, 1980 18 Days  
60, 78, 96, 97, 106, 110

June, 1980 30 Days  
Wells as shown above

July, 1980 18 Days  
Wells as shown above

August, 1980 16 Days  
No. 60

September, 1980 14 Days  
No. 60  
No. 97 18 Days  
Nos. 96, 106 21 Days  
& 110

October, 1980 25½ Days  
No. 60  
No. 96, 97, 30  
106 & 110

November, 1980

No. 60 went to J Battery 29 days and North Central 1 day.

Nos. 96, 97, 106, & 110 went to J Battery 27 days and North Central 1 day.

From January 11, 1979 thru September 21, 1979 60, 96, 96, 106 and 110 produced into J Battery.

O Battery:

The following wells originally went to this battery

47  
51  
57  
62  
79  
81

57 was shut in 8/1965

62 was sent to M Battery 8/12/1965 Battery Abandoned

P Battery:

The following wells originally went to this battery

37  
48  
54  
65  
71  
95  
111

This battery turned to North Central Battery 10/20/76

Q Battery:

The following wells originally went to this battery

43  
64  
66  
83  
88  
89

57 was sent to Q Battery when it was put back on production 4/27/77  
This battery turned to North Central Battery 10/21/1978

R Battery:

The following wells originally went to this battery

7  
15

No 7 is still producing into this battery  
No. 15 was sent back to D Battery 11/1/69

Tank Battery	Tanks	Cond.	Description	Year	Treater	Cond.	House
A Battery	2 - 1000	2	E½ Sec. 2, T28N, R51E	1952	8 x 28	2	Yes
B Battery	1 - 1000	4	NW¼ Sec. 33, T29N, R51E	1952	6 x 28	4	Yes
C Battery	1 - 300 1 - 500	2	W½ Sec. 2, T28N, R51E	1952	6 x 28	2	Yes
South Cent	2 - 500	2	SE¼ Sec. 10, T28N, R51E	1982	5 x 12.5	2	Yes
E Battery	1 - 500	4	W½ Sec. 30, T29N, R51E	1955	6 x 20	4	Yes
F Battery	1 - 1000	4	E½ Sec. 3, T28N, R51E	1955			No
G Battery	1 - 500	4	SE¼ Sec. 2, T28N, R51E	1955	4 x 28	4	Yes
H Battery	2 - 300	4	W½ Sec. 14, T28N, R51E	1955	8 x 28	4	Yes
I Battery	1 - 500	4	E½ Sec. 19, T29N, R51E	1955	8 x 28 5 x 12½	4 2	Yes Yes
J Battery			W½ Sec. 29, T29N, R51E	1955	8 x 28	4	
K Battery			E½ Sec. 11, T28N, R51E	1955	8 x 28	4	Yes
L Battery			NW¼ Sec. 18, T29N, R51E	1955	4 x 28	4	Yes
N Battery	2 - 400 1 - 500	2 4	SE¼ Sec. 28, T29N, R51E	1955	6 x 28	2	Yes
P Battery	1 - 1000	4	NE¼ Sec. 13, T29N, R51E	1955	8 x 28	4	Yes
Q Battery			E½ Sec. 34, T29N, R51E	1955	8 x 28	4	Yes
R Battery	2 - 400	2	SE¼ Sec. 10, T28N, R51E	1969	5 x 12½	2	No
S Battery	2 - 400	2	SE¼ Sec. 30, T29N, R51E	1975	4 x 28	2	Yes
North Cent.	1 - 1000 1 - 1000	2 4	SE¼ Sec. 30, T29N, R51E	1955	4 x 28	2	Yes
B Battery	1 - 400	4	NW Sec. 33, T29N, R51E	1981	5 x 10 1960	2	

Tank Battery	Tanks	Cond.	Description	Year	Treater	Cond.	House
EPU Workover	1 - 210	2	Used all over field	1960			
EPU No. 60	1 - 135	2	NW $\frac{1}{4}$ Sec. 29, T29N, R51E	1960			
EPU No. 23	1 - 210	2	SE $\frac{1}{4}$ Sec. 24, T29N, R50E	1960			
EPU No. 95	1 - 210	2	SW $\frac{1}{4}$ Sec. 12, T29N, R50E	1960			
EPU 1-D	2 - 1000 wood	2	SE $\frac{1}{4}$ Sec. 30, T29N, R51E	1965			
EPU 5-D	1 - 400	2	SE $\frac{1}{4}$ Sec. 19, T29N, R51E	1984	5 x 10	1960	2
EPU 8-D	1 - 400	2	SE $\frac{1}{4}$ Sec. 10, T28N, R51E	1981			
EPU 80-D	1 - 500 wood	2	NW $\frac{1}{4}$ Sec. 3, T28N, R51E	1982			
Gathering Sys.	2 - 5000	4	Sec. 1, T27N, R51E	1952			
	1 - 1000	4	SE $\frac{1}{4}$ Sec. 30, T29N, R51E	1952			
	1 - 1000	2	SE $\frac{1}{4}$ Sec. 30, T29N, R51E	1952			

Tank Battery	Tanks	Cond.	Description	Year	Treater	Cond.	House
A Battery	2 - 1000	2	E $\frac{1}{2}$ Sec. 2, T28N, R51E	1952	8 x 28	2	Yes
B Battery	1 - 1000	4	NW $\frac{1}{4}$ Sec. 33, T29N, R51E	1952	6 x 28	4	Yes
C Battery	1 - 300	2	W $\frac{1}{2}$ Sec. 2, T28N, R51E	1952	6 x 28	2	Yes
	1 - 500	2					
South Cent.	2 - 500	2	SE $\frac{1}{4}$ Sec. 10, T28N, R51E	1982	5 x 12.5	2	Yes
E Battery	1 - 500	4	W $\frac{1}{2}$ Sec. 30, T29N, R51E	1955	6 x 20	4	Yes
F Battery	1 - 1000	4	E $\frac{1}{2}$ Sec. 3, T28N, R51E	1955			No
G Battery	1 - 500	4	SE $\frac{1}{4}$ Sec. 2, T28N, R51E	1955	4 x 28	4	Yes
H Battery	2 - 300	4	W $\frac{1}{2}$ Sec. 14, T28N, R51E	1955	8 x 28	4	Yes
I Battery	1 - 500	4	E $\frac{1}{2}$ Sec. 19, T29N, R51E	1955	8 x 28	4	Yes
					5 x 12 $\frac{1}{2}$	2	Yes
J Battery			W $\frac{1}{2}$ Sec. 29, T29N, R51E	1955	8 x 28	4	
K Battery			E $\frac{1}{2}$ Sec. 11, T28N, R51E	1955	8 x 28	4	Yes
L Battery			NW $\frac{1}{4}$ Sec. 18, T29N, R51E	1955	4 x 28	4	Yes
N Battery	2 - 400	2	SE $\frac{1}{4}$ Sec. 28, T29N, R51E	1955	6 x 28	2	Yes
	1 - 500	4	SE $\frac{1}{4}$ Sec. 28, T29N, R51E	1955	6 x 28	2	Yes
P Battery	1 - 1000	4	NW $\frac{1}{4}$ Sec. 13, T29N, R51E	1955	8 x 28	4	Yes
Q Battery			E $\frac{1}{2}$ Sec. 34, T29N, R51E	1955	8 x 28	4	Yes
R Battery	2 - 400	2	SE $\frac{1}{4}$ Sec. 10, T28N, R51E	1969	5 x 12 $\frac{1}{2}$	2	No
S Battery	2 - 400	2	SE $\frac{1}{4}$ Sec. 30, T29N, R51E	1975	4 x 28	2	Yes
North Cent.	1 - 1000	2	SE $\frac{1}{4}$ Sec. 30, T29N, R51E	1955	8 x 28	2	Yes
	1 - 1000	4					
EPU Workover	1 - 210	2	used all over field	1960			
EPU No. 60	1 - 135	2	NW $\frac{1}{4}$ Sec. 29, T29N, R51E	1960			
EPU No. 23	1 - 210	2	SE $\frac{1}{4}$ Sec. 24, T29N, R50E	1960			
EPU No. 95	1 - 210	2	SW $\frac{1}{4}$ Sec. 12, T29N, R50E	1960			
EPU SWD 41	2 - 1000 wood	2	SE $\frac{1}{4}$ Sec. 30, T29N, R51E	1965			
EPU SWD 45	1 - 400	2	SE $\frac{1}{4}$ Sec. 19, T29N, R51E	1984	5 x 10 1960	2	
EPU SWD 48	1 - 400	2	SE $\frac{1}{4}$ Sec. 10, T28N, R51E	1981			
EPU SWD 480	1 - 500 wood	2	NW $\frac{1}{4}$ Sec. 3, T28N, R51E	1982			
Gathering Sys.	2 - 5000	4	Sec. 1, T27N, R51E	1952			
	1 - 1000	4	SE $\frac{1}{4}$ Sec. 30, T29N, R51E	1952			
	1 - 1000	2	SE $\frac{1}{4}$ Sec. 30, T29N, R51E	1952			
B Battery	1 - 400	4	NW Sec. 33, T29N, R51E	1981	5 x 10 1960	2	

The following is the current status of each well

East Poplar Unit No. 1	Producing
East Poplar Unit No. 3	Shut In (Flowed Intermittently)
East Poplar Unit No. 5	Producing
East Poplar Unit No. 6	Producing
East Poplar Unit No. 7	Producing
East Poplar Unit No. 8	Converted to salt water disposal well
East Poplar Unit No. 9	Producing
East Poplar Unit No. 11	Plugged and Abandoned
East Poplar Unit No. 12	Producing
East Poplar Unit No. 14	Temporarily Abandoned CIBP set at 4870'
East Poplar Unit No. 15	Producing
East Poplar Unit No. 18	Producing
East Poplar Unit No. 20	Producing
East Poplar Unit No. 22	Temporarily Abandoned CIBP set at 5835'
East Poplar Unit No. 24	Temporarily Abandoned CIBP set at 5560'
East Poplar Unit No. 26	Plugged and Abandoned
East Poplar Unit No. 32	Temporarily Abandoned CIPB set at 5400'

East Poplar Unit No. 44	Plugged and Abandoned
East Poplar Unit No. 45	Shut In
East Poplar Unit No. 55	Producing
East Poplar Unit No. 59	Plugged and Abandoned
East Poplar Unit No. 61	Plugged and Abandoned
East Poplar Unit No. 67	Plugged and Abandoned
East Poplar Unit No. 68	Shut In
East Poplar Unit No. 72	Plugged and Abandoned
East Poplar Unit No. 74	Plugged and Abandoned
East Poplar Unit No. 76	Plugged and Abandoned
East Poplar Unit No. 80	Converted to salt water disposal well
East Poplar Unit No. 82	Never drilled
East Poplar Unit No. 99	Plugged and Abandoned
East Poplar Unit No. 100	Producing
East Poplar Unit No. 101	Producing
East Poplar Unit No. 104	Producing
East Poplar Unit No. 116	Producing
East Poplar Unit No. 2-D	Plugged and Abandoned
East Poplar Unit No. 3-G	Plugged and Abandoned
Huber No. 1	Shut In



<b>Huber No. 2</b>	<b>Producing</b>
<b>Huber No. 3</b>	<b>Shut In</b>
<b>Huber No. 4-A</b>	<b>Producing</b>
<b>Huber No. 5-D</b>	<b>Converted to salt water disposal well</b>
<b>East Poplar Unit No. 8-D</b>	<b>Current disposal well</b>
<b>East Poplar Unit No. 80-D</b>	<b>Current disposal well</b>
<b>Huber No. 5-D</b>	<b>Current disposal well</b>

East Poplar Unit No. 1  
C SW NE Section 2, T28N, R51E  
1980' from the North line and 1980' from the East line  
API # 25-085-05058  
Lease # I-37-IND-12892

East Poplar Unit No. 3  
SW NW Section 1, T28N, R51E  
1993' from the North line and 660' from the West line  
API # 25-085-05057  
Fee (Frerich)

East Poplar Unit No. 5  
SW SW Section 2, T28N, R51E  
660' from the South line and 660' from the West line  
API # 25-085-05051  
Fee (Zimmerman)

East Poplar Unit No. 6  
NE SE Section 10, T28N, R51E  
1980' from the South line and 660' from the East line  
API # 25-085-05034  
Fee (Reynolds)

East Poplar Unit No. 7  
C SW NW Section 11, T28N, R51E  
1980' from the North line and 660' from the East line  
API# 25-085-05041  
Fee (Reynolds)

East Poplar Unit No. 9  
SW SW Section 11, T28N, R51E  
660' from the South line and 660' from the West line  
API # 25-085-05030  
1420-056-4047  
I-37-IND-12845

East Poplar Unit No. 12  
SW SE Section 3, T28N, R51E  
660' from the South line and 1980' from the East line  
API # 25-085-05049  
1420-056-4047

East Poplar Unit No. 14  
SE SE Section 3, T28N, R51E  
660' from the South line and 660' from the East line  
API # 25-085-05048  
1420-056-4047

East Poplar Unit No. 15  
NW NW Section 11, T28N, R51E  
660' from the North line and 660' from the West line  
API # 25-085-05045  
Fee (Reynolds)

East Poplar Unit No. 18  
SE NW Section 2, T28N, R51E  
1980' from the North line and 1980' from the West line  
API # 25-085-05056  
Fee (Zimmerman)

East Poplar Unit No. 20  
SW NE Section 14, T28N, R51E  
1980' from the North line and 660' from the West line  
API # 25-085-05025  
Fee

East Poplar Unit No. 22  
SW SW Section 14, T28N, R51E  
660' from the West line and 560' from the South line  
API # 25-085-05019  
I-37-IND-12878

East Poplar Unit No. 24  
SW SW Section 12, T28N, R51E  
660' from the South line and 660' from the West line  
API # 25-085-05032  
1420-056-4047

East Poplar Unit No. 26  
C SW NE Section 23, T28N, R51E  
1980' from the North line and 1980' from the East Line  
API# 25-085-05017  
Lease # 14-20-0256-4043

East Poplar Unit No. 32  
SW NE Section 15, T28N, R51E  
1980' from the North line and 1980' from the East line  
API# 25-085-05024  
Lease # 14-20-056-4047

East Poplar Unit No. 44  
C SW SW Section 24, T28N, R51E  
660' from the South line and 660' from the West line  
API# 25-085-05013  
Lease # I-37-IND-12875

East Poplar Unit No. 45  
SW NE Section 4, T28N, R51E  
1980' from the North line and 1980' from the East line  
API # 25-085-05059  
Patented

East Poplar Unit No. 55  
NW SW Section 23, T28N, R51E  
1980' from the South line and 660' from the West line  
API# 25-085-05014  
Lease # 14-20-256-4043

East Poplar Unit No. 59  
SW NW Section 4, T28N, R51E  
1911' from the North line and 732' from the West line  
API# 25-085-05053  
Lease # 14-20-256-4047

East Poplar Unit No. 61  
SW NE Section 12, T28N, R51E  
1980' from the North line and 2081' from the East line  
API# 25-085-05038

East Poplar Unit No. 67  
SE NE Section 9, T 28N, R51E  
1976' from the North line and 660' from the East line  
API# 25-085-05043  
Lease # I-37-IND-12868

East Poplar Unit No. 68  
SW NE Section 11, T28N, R51E  
2007' from the North line and 1980' from the East line  
API# 25-085-05042  
Fee (Reynolds)

East Poplar Unit No. 72  
SW SE Section 22, T28N, R51E  
660' from the South line and 1979' from the East line  
API# 25-085-05012

East Poplar Unit No. 74  
SE SW Section 13, T28N, R51E  
658' from the South line and 1984' from the West line  
API# 25-085-05020  
O'Connor

East Poplar Unit No. 76  
NE SE Section 1, T28N, R51E  
1982' from the South line and 660' from the East line  
API# 25-085-05052  
Lease #I-37-IND-12890

East Poplar Unit No. 80  
SW NW Section 3, T28N, R51E  
1982' from the North line and 761' from the West line  
API# 25-085-05054  
I-37-IND-12914

East Poplar Unit No. 82  
C SW NE Section 3, T28N, R51E  
1985' from the North line and 1978' from the East line  
Well never drilled

East Poplar Unit No. 99  
SW NE Section 1, T28N, R51E  
1980' from the North line and 1980' from the East line  
API# 25-085-05055

East Poplar Unit No. 100  
SW SE Section 11, T28N, R51E  
660' from the South line and 1989' from the East line  
API# 25-085-05031  
Lease 3 14-20-256-4047

East Poplar Unit No. 101  
SW NW Section 14, T28N, R51E  
1220' from the North line and 1320' from the West line  
API# 25-085-05027  
Lease # I-37-IND-12878

East Poplar Unit No. 104  
W/C SE ¼ Section 14, T28N, R51E  
1320' from the South line and 1980' from the East line  
API# 25-085-05021  
Lease # I-37-IND-12879

East Poplar Unit No. 116  
SE SE Section 2, T28N, R51E  
403' from the South line and 359' from the West line  
API# 25-085-21618  
Fee

## SALT WATER DISPOSAL WELLS

East Poplar Unit No. 80-D  
SW NW Section 3, T28N, R51E  
1982' from the North line and 761' from the West line  
API # 25-085-05054  
I-37-IND-12914

East Poplar Unit No. 8-D  
NW SE Section 10, T28N, R51E  
1980' from the South line and 1980' from the East line  
API 25-085-05033  
Fee (Reynolds)

East Poplar Unit No. 3-G  
C NE NE SW Section 23, T28N, R51E  
1155' from the South line and 1155' from the West line

Lease # BLM – A 012245

East Poplar Unit No. 2-D  
SW NE Section 2, T28N, R51E  
2135' from the North line and 1941' from the East line  
Lease # I-37-IND-12892



Huber No. 1

SE NE Section 10, T28N, R51E

1980' from the North line and 660' from the East line

API # 25-085-05039

Fee

Huber No. 2

SW NE Section 10, T28N, R51E

1980' from the North line and 1980' from the East line

API # 25-085-05037

Fee

Huber No. 3

NE NE Section 10, T28N, R51E

600' from the North line and 660' from the East line

25-085-05046

Fee

Huber No. 4-A

NW NE Section 10, T28N, R51E

660' from the North line and 1905' from the East line

25-085-05374

Fee

Huber No. 5-D

SW NE Section 10, T28N, R51E

1980' from the North line and 1420' from the East line

API # 25-085-21024

Fee

Salt Water Disposal Well



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

U.S. EPA Region VIII  
999 Eighteenth Street, Suite 500  
Denver, CO 80202-2466

## SPCC COMPLIANCE INSPECTION REPORT FOR ONSHORE OIL PRODUCTION FACILITIES

DOCKET: M95019 INSPECTION TYPE: Announced INSPECTION DATE: 6/13/95  
U.S. EPA INSPECTOR(S): WOLF - TEZDILLIGER  
FACILITY IN OPERATION? ☒ Yes ☐ No DOES 40 CFR 112 APPLY? ☒ Yes ☐ No  
OPERATOR: MURPHY EXPLORATION PRODUCTION CO. TELEPHONE: 406-768-3612  
ON-SCENE CONTACT: RAY REED TITLE: DISTRICT MANAGER  
NAME OF BUSINESS: ASABONE  
BUSINESS ADDRESS: \_\_\_\_\_  
LOCAL OFFICE ADDRESS: Box 547, Poplar, MT. 59255 TELEPHONE: AS ABOVE  
FACILITY/LEASE: "C" BATTERY FIELD: EAST POPLAR  
FACILITY LOCATION: 48°12.42'N / 105°06.24'W COUNTY: ROOSEVELT STATE: MT  
NEAREST BODY OF WATER: POPLAR RIVER DISTANCE/DIRECTION: 6000' NW  
TOTAL OIL STORAGE CAPACITY: 800 BBLs OIL TYPE: CRUDE  
CAPACITY OF LARGEST TANK: 500 BBLs NUMBER OF OIL TANKS: 2

1-500 BBLs  
1-300 "

Roll A #10 FACILITY

### DEFICIENCIES, TITLE 40, CFR PART 112:

1. [ ] NONE
2. [ ] No SPCC Plan
3. [ ] SPCC Plan not properly certified
4. [ ] SPCC Plan inadequate
5. [ ] SPCC Plan inadequately implemented
6. [ ] No secondary containment
7. [ ] Inadequate secondary containment ROLL A #10 CONTAINMENT WORK DONE ON WEST - APPEARS ADEQUATE AT TIME OF INSPECTION - WILL REQUIRE OPERATOR'S ATTENTION IF ALLOWED TO DETERIORATE FURTHER
8. [ ] Inadequate inspection/maintenance of storage tanks
9. [ ] Inadequate inspection/maintenance of flowlines; equipment other than tanks
10. [ ] Tanks not engineered to prevent oil spills
11. [ ] Oil traps/sumps allowed to overflow
12. [ ] Pooling oil or oil-saturated ground
13. ☒ Other INADEQUATE SUPPORT OF OFF-LOAD LINE ROLL A #11
14. [ ] Please submit a copy of the facility SPCC Plan to SPCC Coordinator, U.S. EPA Region VIII within 30 days of inspection.

I acknowledge that an SPCC inspection of this facility was conducted on the 13 day of JUNE, 19 95.

Facility Representative Signature

Inspector Signature



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

U.S. EPA Region VIII  
999 Eighteenth Street, Suite 500  
Denver, CO 80202-2466

## SPCC COMPLIANCE INSPECTION REPORT FOR ONSHORE OIL PRODUCTION FACILITIES

DOCKET: M 95-017 INSPECTION TYPE: Announced INSPECTION DATE: 6/13/95  
U.S. EPA INSPECTOR(S): WOLF - TERWILLIGER  
FACILITY IN OPERATION? ☒ Yes ☐ No DOES 40 CFR 112 APPLY? ☒ Yes ☐ No  
OPERATOR: MURPHY EXPLORATION PRODUCTION CO. TELEPHONE: 406 - 768-3612  
ON-SCENE CONTACT: RAY REEDE TITLE: DISTRICT MANAGER  
NAME OF BUSINESS: AS ABOVE  
BUSINESS ADDRESS: \_\_\_\_\_  
LOCAL OFFICE ADDRESS: Box 547, POPLAR, MT 59255 TELEPHONE: AS ABOVE  
FACILITY/LEASE: S. CENTRAL TANK BATTERY / "R" BATTERY FIELD: EAST POPLAR  
FACILITY LOCATION: 48° 11.53' N / 105° 06.75' W COUNTY: ROOSEVELT STATE: MT  
NEAREST BODY OF WATER: POPLAR RIVER DISTANCE/DIRECTION: 8000' NW  
TOTAL OIL STORAGE CAPACITY: 1800 BBLs OIL TYPE: CRUDE  
CAPACITY OF LARGEST TANK: 500 BBLs NUMBER OF OIL TANKS: 4

### DEFICIENCIES, TITLE 40, CFR PART 112:

- |     |                                     |  |
|-----|-------------------------------------|--|
| 1.  | <input type="checkbox"/>            | NONE   |
| 2.  | <input type="checkbox"/>            | No SPCC Plan   |
| 3.  | <input type="checkbox"/>            | SPCC Plan not properly certified   |
| 4.  | <input type="checkbox"/>            | SPCC Plan inadequate   |
| 5.  | <input type="checkbox"/>            | SPCC Plan inadequately implemented   |
| 6.  | <input type="checkbox"/>            | No secondary containment   |
| 7.  | <input type="checkbox"/>            | Inadequate secondary containment   |
| 8.  | <input checked="" type="checkbox"/> | Inadequate inspection/maintenance of storage tanks <u>ROLL A #5 LEAKY VALVE (S. CENTRAL TANK BATTERY - WEST TANK)</u>  |
| 9.  | <input type="checkbox"/>            | Inadequate inspection/maintenance of flowlines; equipment other than tanks   |
| 10. | <input type="checkbox"/>            | Tanks not engineered to prevent oil spills   |
| 11. | <input type="checkbox"/>            | Oil traps/sumps allowed to overflow  |
| 12. | <input checked="" type="checkbox"/> | Pooling oil or <u>oil-saturated ground</u> <u>ROLL A #5 FROM LEAKY VALVE (SEE ABOVE)</u>                               |
| 13. | <input type="checkbox"/>            | Other _____  |
| 14. | <input type="checkbox"/>            | Please submit a copy of the facility SPCC Plan to SPCC Coordinator, U.S. EPA Region VIII within 30 days of inspection. |

I acknowledge that an SPCC inspection of this facility was conducted on the 13 day of JUNE, 19 95

\_\_\_\_\_  
Facility Representative Signature

\_\_\_\_\_  
Inspector Signature



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

U.S. EPA Region VIII  
999 Eighteenth Street, Suite 500  
Denver, CO 80202-2466

## SPCC COMPLIANCE INSPECTION REPORT FOR ONSHORE OIL PRODUCTION FACILITIES

DOCKET: M 95-016 INSPECTION TYPE: ANNOUNCED INSPECTION DATE: 6/13/95  
U.S. EPA INSPECTOR(S): MARTHA COBLE - JIM TERWILLIGER  
FACILITY IN OPERATION? ☐ Yes ☒ No DOES 40 CFR 112 APPLY? ☐ Yes ☒ No  
OPERATOR: MURPHY EXPLORATION PRODUCTION CO. TELEPHONE: 406-768-3612  
ON-SCENE CONTACT: RAY REEDE TITLE: DISTRICT MANAGER  
NAME OF BUSINESS: AS ABOVE  
BUSINESS ADDRESS: AS ABOVE  
LOCAL OFFICE ADDRESS: BOX 547, POPLAR, MT 59255 TELEPHONE: AS ABOVE  
FACILITY/LEASE: EAST POPLAR UNIT "G" WATER FIELD: EAST POPLAR UNIT  
FACILITY LOCATION: 48°12.10'N / 105°05.33'W COUNTY: ROOSEVELT STATE: MT  
NEAREST BODY OF WATER: POPLAR RIVER DISTANCE/DIRECTION: 10.000' NW  
TOTAL OIL STORAGE CAPACITY: 500 BBLs OIL TYPE: CRUDE  
CAPACITY OF LARGEST TANK: 500 BBLs NUMBER OF OIL TANKS: 1

### DEFICIENCIES, TITLE 40, CFR PART 112:

1. ☐ NONE
2. ☐ No SPCC Plan
3. ☐ SPCC Plan not properly certified
4. ☐ SPCC Plan inadequate
5. ☐ SPCC Plan inadequately implemented
6. ☐ No secondary containment
7. ☐ Inadequate secondary containment
8. ☐ Inadequate inspection/maintenance of storage tanks
9. ☐ Inadequate inspection/maintenance of flowlines; equipment other than tanks
10. ☐ Tanks not engineered to prevent oil spills
11. ☐ Oil traps/sumps allowed to overflow
12. ☐ Pooling oil or oil-saturated ground
13. ☐ Other \_\_\_\_\_
14. ☐ Please submit a copy of the facility SPCC Plan to SPCC Coordinator, U.S. EPA Region VIII within 30 days of inspection.

ROLL A #1+2 FACILITY  
OUT OF OPERATION

ROLL A #3 INSPECTION IN  
REMOVED FROM  
TANK

I acknowledge that an SPCC inspection of this facility was conducted on the 13 day of JUNE, 19 95.

Ray Reede  
Facility Representative Signature

James L. Terwilliger  
Inspector Signature



## REPORT OF WATER ANALYSIS

Company Murphy Oil Corporation  
Poplar, Montana

Date June 20, 1984

Analysis No.

Sampling Date June 20, 1984

Date Sample Rec'd. June 20, 1984

Sample Marked "C" Battery

### DISSOLVED SOLIDS

Cations	mg/l	meq/l
Sodium, Na (Calc.)	64,239	2,793
Calcium, Ca	1,200	60
Magnesium, Mg	145.8	12
Barium, Ba	0	0

### RESULTS AS COMPOUNDS

	mg/l
as NaCl	
as CaCO <sub>3</sub>	3,000
as CaCO <sub>3</sub>	600
as BaSO <sub>4</sub>	0

Cations Total 65,584.8 2,865

### Anions

Chloride, Cl	100,155	2,824.4
Sulfate, SO <sub>4</sub>	16,224	33.8
Carbonate, CO <sub>3</sub>	0	0
Bicarbonate, HCO <sub>3</sub>	414.8	6.8

as NaCl	165,000
as Na <sub>2</sub> SO <sub>4</sub>	2,400
as CaCO <sub>3</sub>	0
as CaCO <sub>3</sub>	340

Anions Total 116,793.8 2,865

Total Dissolved Solids (Calc.) 182,378.6

Total Iron, Fe

as Fe 0.2

Acidity to Phenolphthalein, CO<sub>2</sub> 92.4

as CaCO<sub>3</sub> 210

### OTHER PROPERTIES

pH	6.0
Specific Gravity	
Turbidity (JTU)	
Sulfide, as H <sub>2</sub> S	66.7 ppm

### CaCO<sub>3</sub> STABILITY INDEX

@ 70° F.

@ 120° F.

@ 160° F.

Method of Stiff & Davis

Remarks: cc: D. Kasowski  
D. Brown

/mg

NALCO CHEMICAL COMPANY  
VISCO CHEMICALS

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